SHARP Service Manual

SG-330H

APSS
Auto Program Search System

Receiver with Cassette Tape-Deck and Record Player

MODEL SG-330H

"In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used"

SPECIFICATIONS

RECEIVER

Circuit	LW/MW/SW/FM (FM-STEREO) 4-band stereo receiver with 4-track cassette tape-deck and record-player.
Power source:	110/220/240 V, 50 Hz
Semiconductors:	7-IC (Integrated Circuit) 25-transistor 1-FET 34-diode
Dimensions:	771 mm (30-3/8") (W) x 164 mm (6-7/16") (H) x 380 mm (14-5/16") (D)
Weight:	13.8 kg

AUDIO SECTION

Music power output	2 x 35 W/4 ohms
Continuous power output:	2 x 20 W/4 ohms
Frequency response:	50 Hz – 35,000 Hz (–3 dB)
Output impedance:	4 ohms
Input sensitivity and input impedance:	MIC: 1 mV, 10K ohms AUX: 300 mV, 50K ohms

FM SECTION

Frequency coverage:	87.6 ~ 108 MHz
Quieting sensitivity:	2 μV (40 kHz deviation, S/N=30 dB)
Harmonic distortion:	1%
Stereo separation:	30 dB

AM SECTION

Frequency range:	LW:	150 ~ 370 kHz
	MW:	520 ~ 1620 kHz
	SW:	5.95 ~ 18 MHz
Usable sensitivity:	LW:	300 μV/m
	MW:	300 μV/m
	SW:	50 μV

TAPE DECK SECTION

Type:	4-track 2-channel stereo cassette tape deck
Tape:	Philips standard compact cassette tape
Tape speed:	4.8 cm/sec
Wow & flutter:	0.35% (DIN standard)
Frequency response:	50 Hz ~ 15 kHz (CrO_2 tape) 50 Hz ~ 10 kHz (Normal tape)

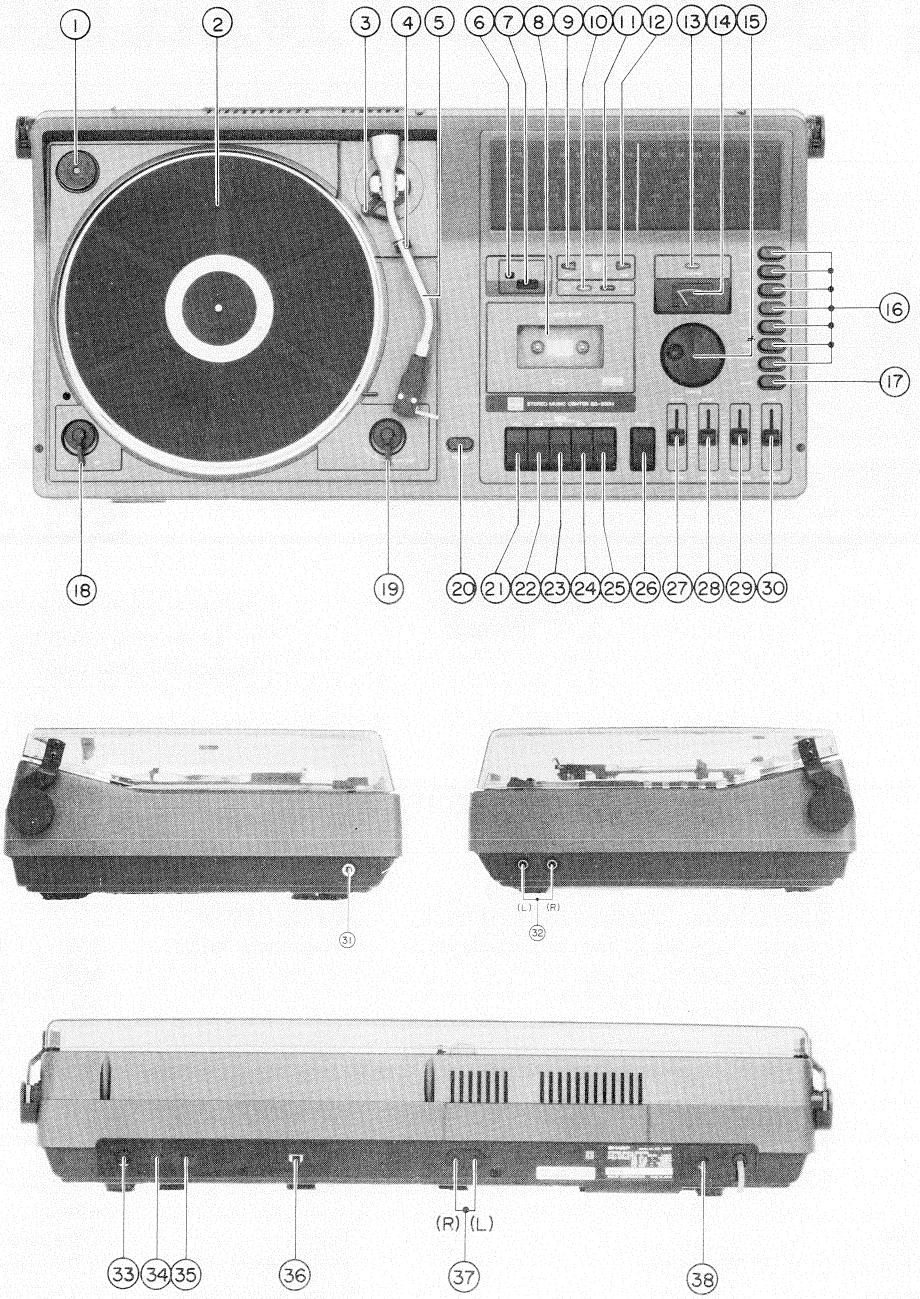
RECORD PLAYER SECTION

Type:	Rim driven
Speed:	33-1/3, 45 r.p.m.
Tonearm:	Static balancing
Cartridge:	Magnetic type
Motor:	AC110 V, 50 Hz 4-pole synchronous

Specifications are subject to change without prior notice.

SHARP CORPORATION OSAKA, JAPAN

LOCATION OF CONTROLS



1. Adaptor for 17 cm (7") EP-record
2. Turntable platter
3. Tonearm lifter
4. Tonearm rest
5. Tonearm
6. Tape counter reset button
7. Digital tape counter
8. Cassette holder
9. Reverse APSS indicator
10. Record indicator
11. CrO_2 tape indicator
12. Forward APSS indicator
13. FM stereo indicator
14. Signal strength meter
15. Tuning control
16. Function selector
17. Stereo-mono selector
18. Speed selector
19. Operation lever
20. Power switch
21. Record key
22. Rewind/Reverse APSS key
23. Play key
24. Fast-forward/Forward APSS key
25. Stop key
26. Pause key
27. Bass control
28. Treble control
29. Balance control
30. Volume control
31. Headphones jack
32. Microphone jacks
33. Auxiliarey input socket
34. LW/MW/SW aerial socket
35. FM aerial socket
36. R.I.F. (Radio Interference Filter) switch
37. Speaker sockets
38. Mains volutage selector

Figure 2–1

DISASSEMBLY

* Disconnect all leads connected to the back of the unit.
* Refer to Figure 3–1.

A DUST COVER REMOVAL

1. Fully open the dust cover.
2. Remove two (2) hings by moving the dust cover to the direction of arrow mark.

B TOP CABINET REMOVAL

1. Remove the dust cover as described in dust cover removal.
2. Remove seven (7) knobs (TUNING, VOLUME, BALANCE, BASS, TREBLE, Operation and Speed selector).
3. Remove six (6) screws retaining the top cabinet.
4. Set the pick-up to center position of the turntable.
5. Gently lift up the top cabinet.

C PLAYER BOARD REMOVAL

1. Remove the top cabinet as described in top cabinet removal.
2. Lift up the player board, and disconnect two (2) sockets (CNS-3, CNS-4).

D TAPE DECK REMOVAL

1. Remove the top cabinet as described in top cabinet removal.
2. Disconnect two (2) sockets (CNS-1, CNS-2) connected to the power P.W. Board and Record P.W. Board.
3. Remove six (6) screws retaining the tape deck.

E BOTTOM COVER REMOVAL

1. Remove two (2) screws retaining the bottom cover.

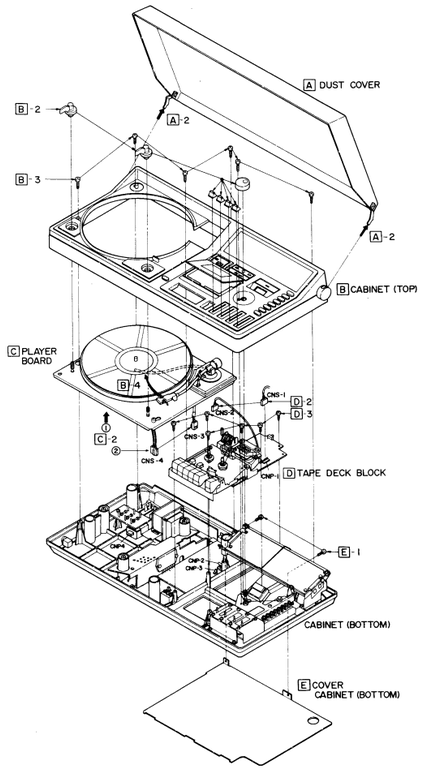


Figure 3–1

REPLACEMENT OF THE FUSE

* Replace the fuse with a new one in the following way.

1. Pull the power cord plug out of an wall outlet.
2. Remove the turntable.
3. Remove the screw (A) retaining the fuse cover and turn the fuse cover in the arrowed direction.
4. Remove the fuse through its pull-out hole by your fingers or pliers and replace it with a new one.
5. After the replacement, reset the cover to its original place and retighten the screw (A).

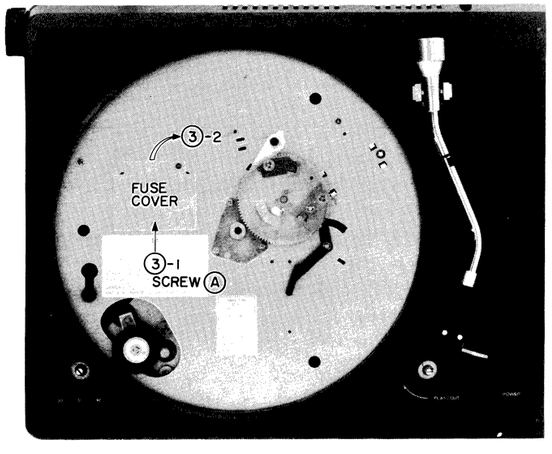


Figure 3–2

VOLTAGE SELECTION

■ Before operating the unit on mains, check the pre-set voltage. If the voltage is different from your local voltage, adjust the voltage as follows: Rotate the plug of the voltage selector by using a screwdriver so that your local voltage number can be seen.
(Refer to Figure 4–1)

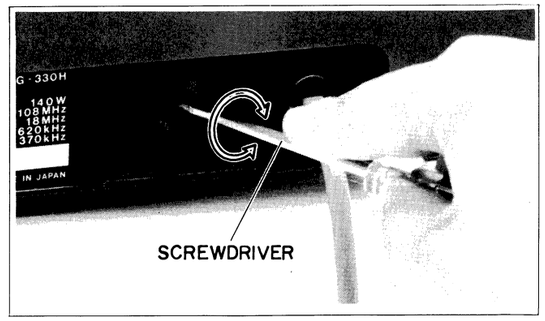


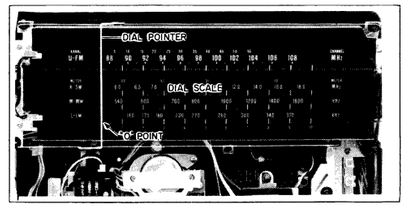
Figure 4–1

DIAL CORD STRINGING

(Refer to Figure 4–2)

SETTING OF THE DIAL POINTER

1. Turn the tuning shaft fully counterclockwise (at the lowest frequency position).
2. Align the dial pointer to the extreme left of the dial scale ("0" point position).



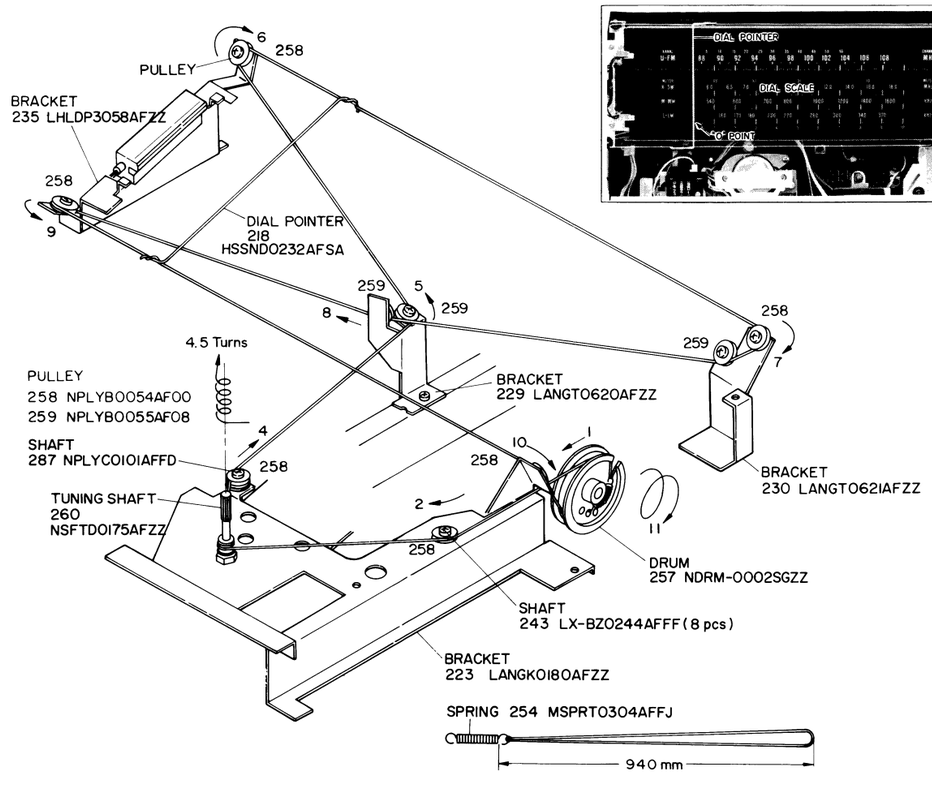


Figure 4–2

DESCRIPTION OF APSS

APSS is an abbreviation of Auto Program Search System uniquely developed by SHARP, which can automatically detect the starting position of each program.
With the APSS system, if the fast forward key (or rewind key) is depressed during playback mode, the tape is fast forwarded (or rewound) to the starting position of the next (or present) program and then the fast forward (or rewind) key is automatically released to make the mechanism be put in playback mode. While the APSS is in operation, the tape is forwarded (or rewound) 15 to 35 times as fast as in playback mode.

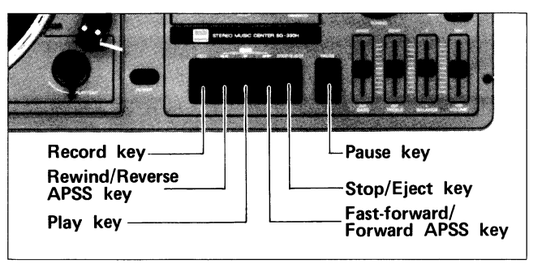


Figure 5–1

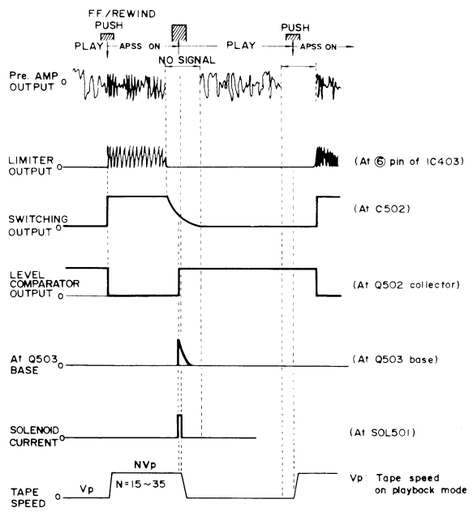


Figure 5–2

OUTLINE OF APSS

■ **MIXING AND LIMITER AMP**
This amplifier is composed of IC403 and serves to mix equalizer amplifier outputs of right and left channels. Moreover it servers to amplify the output of mixer amplifier to the level where the APSS starts to operation.

■ **SWITCHING CIRCUIT**
This switching circuit is composed of Q501. Switching of the Q501 enables C502 be charged.

■ **TIME CONSTANT CIRCUIT**
This time constant circuit is composed of R503, C502.

■ **LEVEL COMPARISON CIRCUIT**
This level comparator is made of Q502. When the set gets in APSS operation, there appears output of the limiter amplifier to turn on Q501 so that the capacitor C502 be charged by the time constant circuit C502 and R501, thus resulting in the Q502 being turned on. When no output is then produced from the limiter amplifier with the tape being at a non-signal recorded part, the Q501 is turned off and the C502 once charged is discharged by the time constant circuit C502 and R503 so that the Q502 be turned off when its base potential reaches a certain reference voltage.

■ **SOLENOID CONTROLLED CIRCUIT**
This plunger controlled circuit is composed of Q503. When Q502 is switched over from on to off, C503 is charged resulting in that the Q503 be switched over from off to on. Thus, the solenoid operates to release the locked FF (or REW) key and put the set in playback mode again.

■ **TAPE SPEED**
If the FF (or REW) key is depressed with the set in playback mode, it is put into APSS mode. That is to say, the APSS indication lamp lights up and the tape is transported nearly as fast as in FF (or REW) mode, i.e. 15 to 35 times as fast as in normal playback mode. If the APSS mode is canceled by the function of plunger, the tape speed is reduced to the normal playback speed.

FUNCTION OF APSS

The following are detailed functions of the system. During playback mode, signals amplified by IC401 and IC402 enter the mixer/limiter amplifier (IC403). The signals from IC401 and IC402 are mixed, amplified and limited by IC403 and the output of IC403 makes Q501 be switched over to charge C502.

The discharge potential of C502 is level compared by the transistor Q502 and current runs in the base of Q503. At this time, current runs in the plunger to make it be attracted and the mechanism is changed to playback mode from APSS mode.

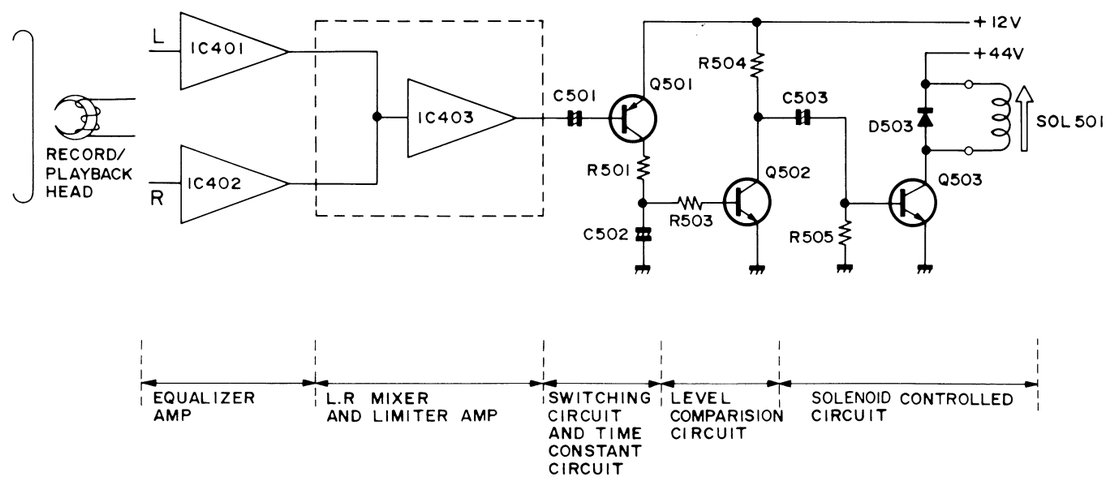


Figure 6–1

Note 1
When such tapes as described below are used, the APSS may not function normally, causing tapes to stop in the middle of a program or to overrun the non-signal segment between programs.
* Tapes which contain intermittent-sound programs such as conversation, lectures and news, etc.
* Tapes which contain pianissimo-featured classical music, solo-performance modern jazz or music, that has much muting.
* Tapes which have low recording level through out the programs.
* Tapes which are provided with too short interval between programs (less than 3 seconds).
* Tapes which include outstanding mixed noise or hum between programs.

Note 2
Note that the APSS cannot function even if the FF (or REW) key is pressed while the tape is being at the blank area between programs.

Note 3
① When the FORWARD APSS is operated within about 10 seconds (as measured in playback mode) after termination of a program.
② When the REWIND APSS is operated within 10 seconds after the start of a program. In the above-mentioned cases ① and ② the part adjacent to the concerned program may be also fast forwarded (or rewound) as shown in Figure 9.

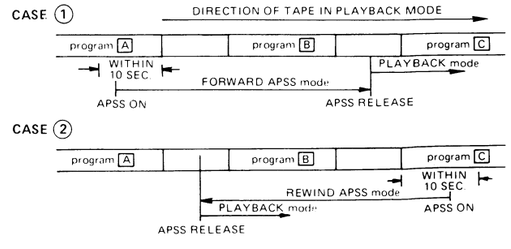


Figure 6–2

FUNCTION OF FULL AUTO STOP SYSTEM

This unit employs a system in which the Hall IC (IC501) detects a variation of magnetic field caused by the rotation of a magnet mounted on the counter shaft. While the magnet on the counter shaft rotates (in playback, record, fast forward and rewind modes), the Hall IC (IC501) is turned on and off alternately to produce pulses at its pin ③ and the pulses thus produced by the Hall IC (IC501) are rectified by the diode (D508) to charge a capacitor (C506) negatively.

As a result, the potential at the base of transister (Q504) reaches approx. −1.0 V, resulting in no operation of multivibrator consisting of transistors (Q504 and Q505).

On the other hand, when the rotation of magnet on the counter shaft is stopped (i.e. when the tape reaches its end in playback, record, fast forward and rewind modes), the Hall IC (IC501) is kept turned on (or off) continuously to produce no pulses so that the capacitor (C506) be stopped to be charged negatively.

This allows a current to flow through resistor (R510), causing capacitor (C506) to be charged positively. As a result, the potential at the base of transistor (Q504) exceeds 1.5 V, which actuates the multivibrator consisting of transistors (Q504 and Q505) to turn them on and off alternately and repeatedly. When Q504 is turned on, Q503 is turned on to allow a current to flow into solenoid (SOL 501).

As a result, the core of solenoid is attracted to put the mechanism in the stop mode. When the tape reaches its end in the APSS (Auto Program Search System) mode, the APSS key is unlocked due to the first attraction of solenoid and the play key is unlocked due to the second attraction, which put the mechanism in the stop mode.

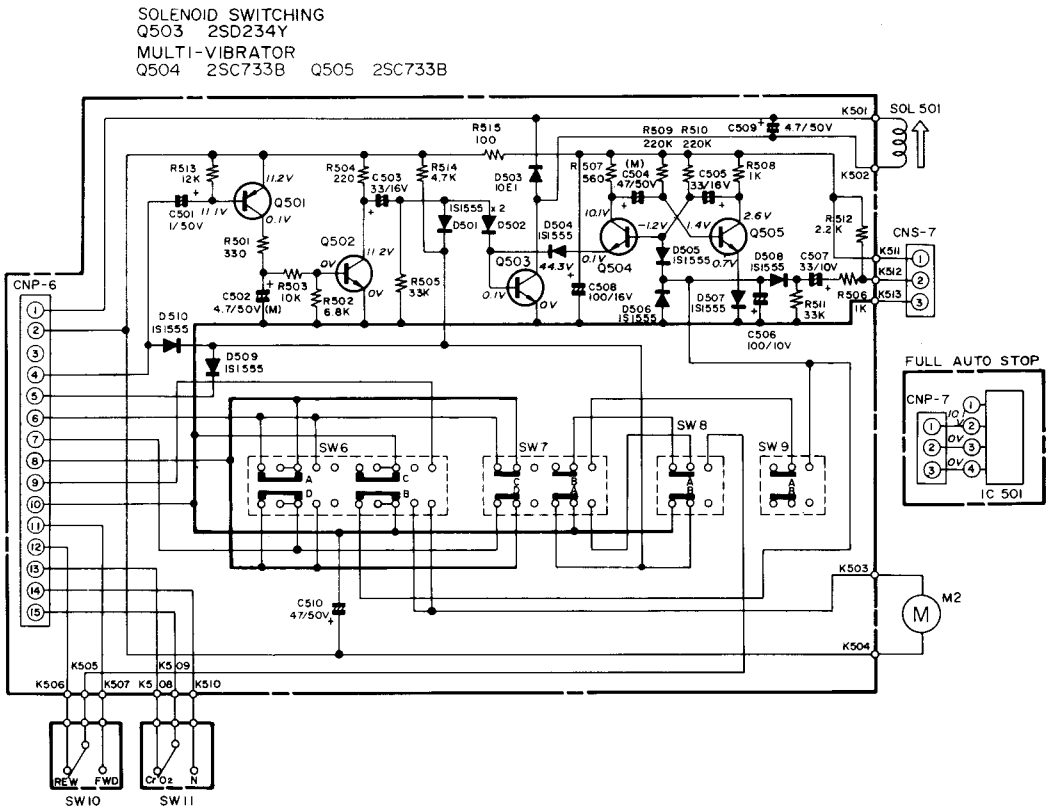


Figure 7–1

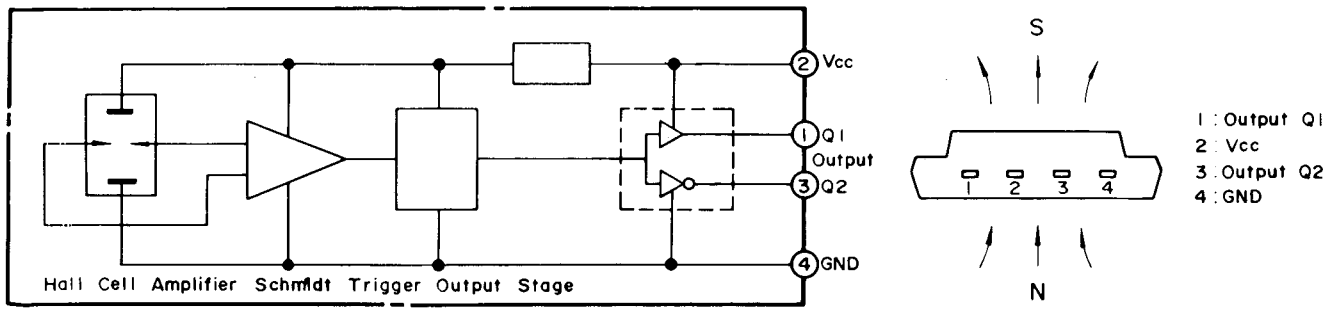


Figure 7–2

MECHANICAL ADJUSTMENT

■ PAUSE MECHANISM ADJUSTMENT

(Refer to Figure 8–1)

1. Put the mechanism in playback mode and slowly depress the pause key. At the time, see that the take-up idler and take-up turntable come off from each other and also the capstan shaft and pressure roller come off from each other.
2. If it is found that the checking in the step 1 above is not satisfied, further adjust the adjustment point shown in Figure 8–1.

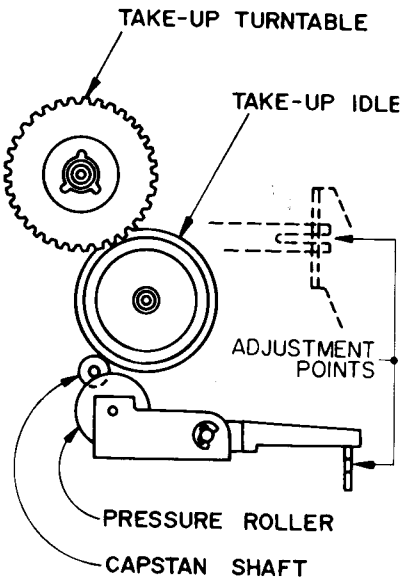


Figure 8–1

■ PRESSURE ROLLER PRESSURE ADJUSTMENT

(Refer to Figure 8–2)

1. Set the unit in play mode.
2. Push the point A with use of tension gauge (0 to 500 gr.) to make the pressure roller apart from the capstan shaft. Then, check that the tension gauge will reads 250 – 350 gr. when the pressure roller stops to rotate.
3. As a result of the check in the step 2 above, if the readings is found outside the range of 250 – 350 gr., adjust the pressure spring of pressure roller by bending it or replace.

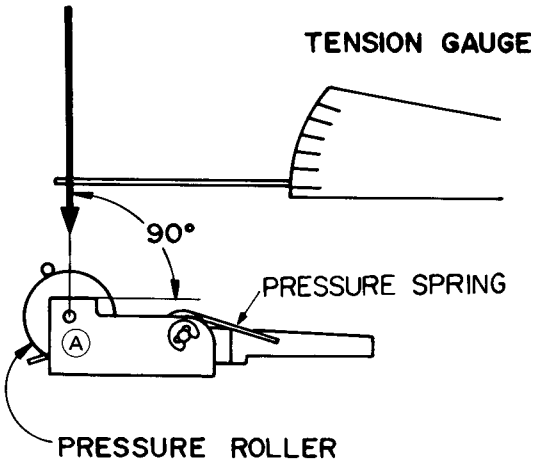


Figure 8–2

■ FLYWHEEL THRUST CLEARANCE ADJUSTMENT

(Refer to Figure 8–3)

Slowly tighten the screw for flywheel thrust clearance until the thrust clearance becomes 0 (zero) and loosen the screw by 1/5 ~ 3/5 turn from this point. Since screw's pitch is 0.5 mm, thrust clearance of about 0.1 ~ 0.3 mm is produced.

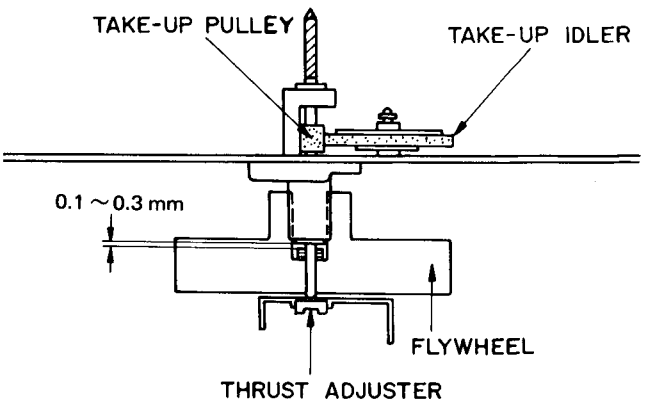


Figure 8–3

■ TORQUE CHECK

(Refer to Figure 9–1)

1. Set the torque measuring reel to the turntable (to the take-up side at playback or fast forward mode and to the supply side at rewind mode).
2. Then, rotate the reel in the same direction as for turntable and read the torque value when the pointer is stabilized.

Mode	Torque Value
Playback	35 – 60 gr. cm
Fast Forward	60 –100 gr. cm
Rewind	60 –100 gr. cm

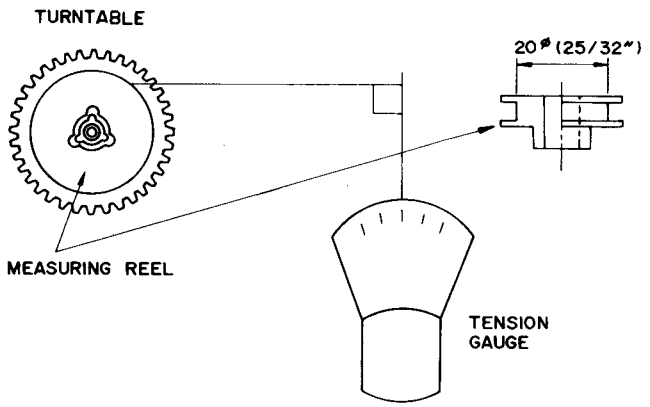


Figure 9–1

■ AUTO STOP SOLENOID SETTING POSITION ADJUSTMENT

(Refer to Figure 9–2)

Push the core of auto stop solenoid (SOL 501) and depress the play key.

At the time, adjust the screws retaining the auto stop solenoid so that the mechanism is changed to stop mode.

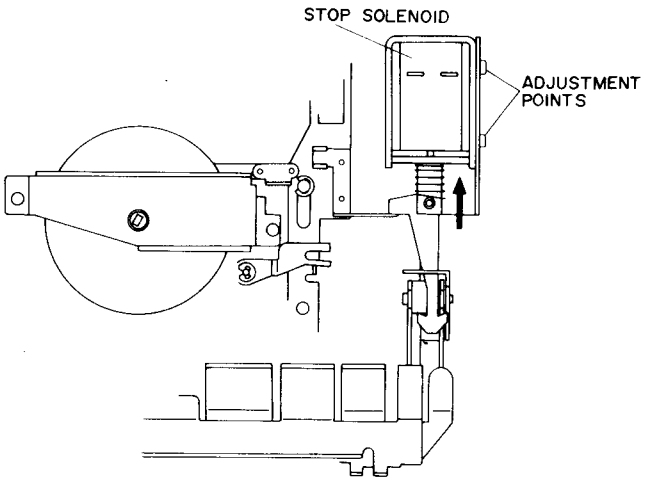


Figure 9–2

* Set the FUNCTION switch (SW1) to the TAPE position.

■ RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

(Refer to Figure 10–1)

1. Connect load resistor (4 ohm) to the EXT. SP. socket (SO301, SO302) and further connect the VTVM thereto.
2. Insert the test tape (MTT-114: 10 kHz, –10 dB Recorded).
3. Set the BASS, TREBLE controls to the mechanical center position.
4. Place the unit in PLAYBACK mode.
5. Adjust the head azimuth adjusting screw so that the playback output voltage becomes maximum in both channels.

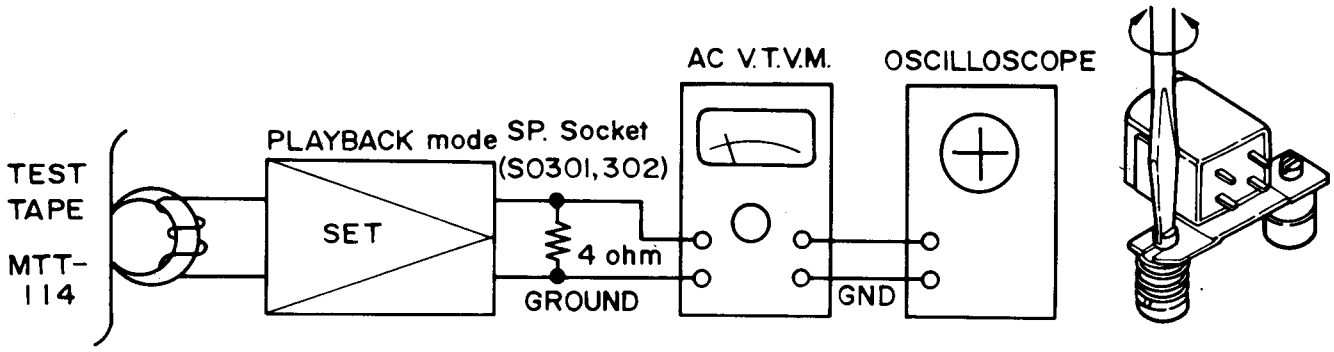


Figure 10–1

■ RECORD AMPLIFIER BIAS CURRENT ADJUSTMENT

(Refer to Figures 10–2 and 16–1)

1. Connect the VTVM across the 100 ohm resistor (R401, R402) (TP401, 402 and Case of REC/PB switch SW2).
2. Set the auto tape selector switch (SW11) to the NORMAL position.
3. Place the unit in RECORD mode.
4. Adjust the semi-variable resistor (VR401, VR402) so that the VTVM readings becomes 40 mV.
   * Auto tape selector switch (SW11): CrO_2 positon → 58 ± 4 mV. (RIF switch: ON → + 1 mV ± 5 mV)

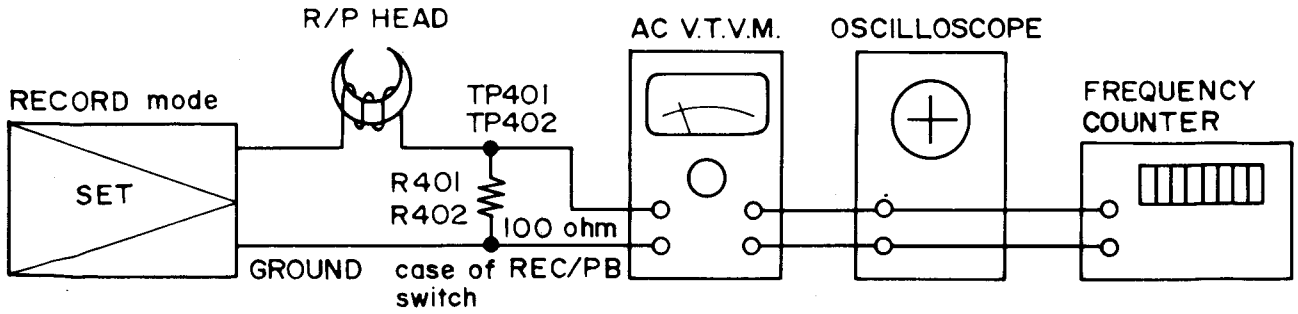


Figure 10–2

■ ERASE CURRENT/BIAS FREQUENCY CHECK

(Refer to Figures 11–1 and 16–1)

1. Connect the VTVM across the 1 ohm resistor (R452) (TP403 and Case of REC/PB switch SW2)
2. Set the auto tape selector switch (SW11) to the NORMAL position.
3. Place the unit in RECORD mode.
4. Make sure the erase current is 60 ~ 120 mV.
   * Auto tape selector switch (SW11) : CrO_2 position →90 ~ 160 mV (RIF switch: ON → + 10 mV ± 20 mV)

   Bias frequency
   53.5 ± 4 kHz (RIF switch: ON → –5.8 kHz ± 1 kHz)

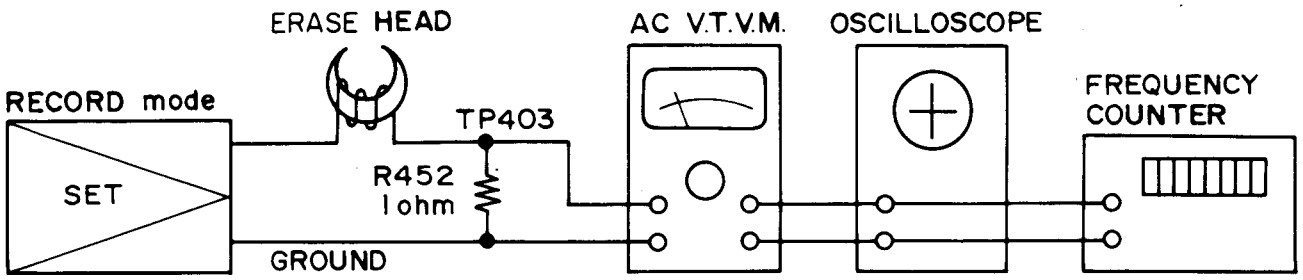


Figure 11–1

■ RECORD AND PLAYBACK AMPLIFIER SENSITIVITY CHECK

(Refer to Figure 11–2)

1. Connect load resistor (4 ohm) to the EXT. SP socket (SO301, SO302) and further connect the VTVM thereto.
2. Connect the C.R. oscillator to the AUX socket (SO103) and apply signals (1 kHz, –30 dB) to the unit.
3. Set the BASS/TREBLE/BALANCE controls to the mechanical center position.
4. Set the Function switch (SW1) to the AUX position and STEREO mode.
5. Reproduce the tape which has been recorded at the step 2 above.
6. If the indication of the VTVM is 1.4 ~ 2.8 V at that time, this means that the record and playback sensitivity is normal. (Normal tape used)

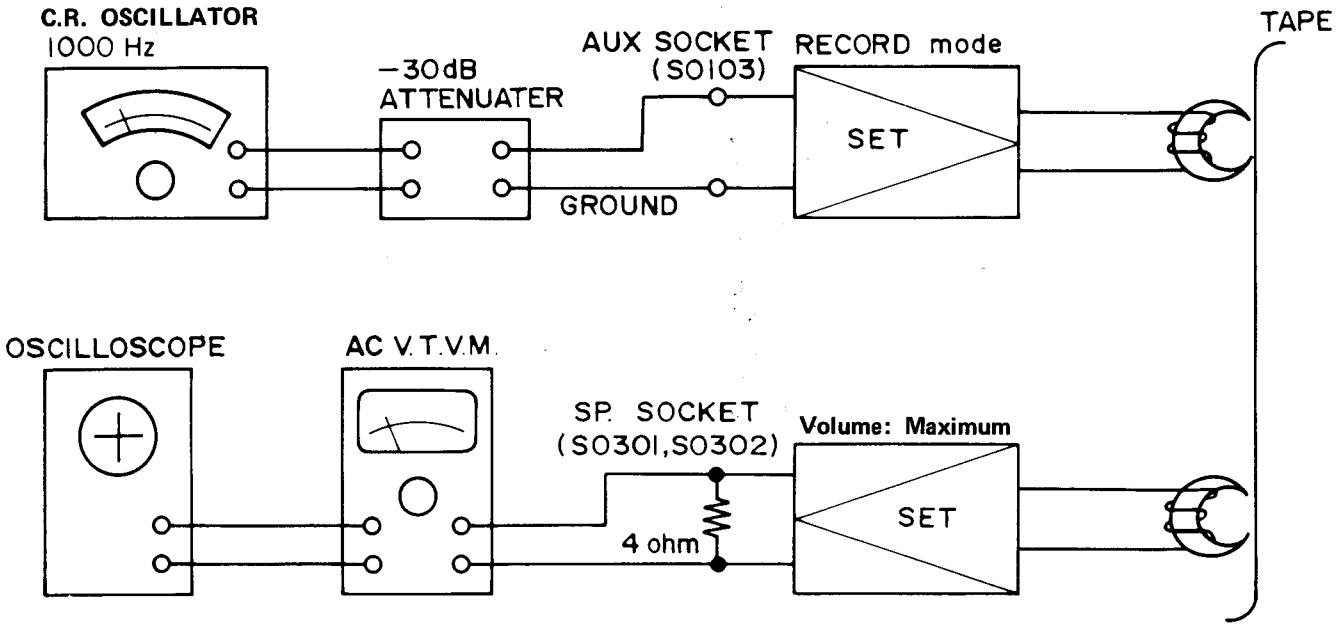


Figure 11–2

GENERAL ALIGNMENT INSTRUCTION

Alignment is an exacting procedure and should be undertaken only when necessary.
If alignment of AM and FM is required, either section may be done first.

The FM stereo section, however, should be done only if the FM monaural section is properly adjusted.

Note : Use a non-metallic alignment tool.

REQUIRED EQUIPMENT:

1. Signal generator with a frequency range of 140 kHz to 18.5 MHz: AM
2. Signal generator with a frequency range of 87.4 MHz to 109 MHz: FM
3. Signal generator with a frequency output of 10.7 MHz ± 0.5 MHz: FM
4. Vacuum tube voltmeter (AC-VTVM)
5. Sweep signal generator with a sweep range of at least 500 kHz and center frequency of 10.7 MHz with at least a 10.7 MHz marker. (Ext. Marker may be used.)
6. Oscilloscope with a wide range amplifier of approximately 100 kHz.
7. Test loops, a coil of any size wire, one turn or more.
8. FM stereo signal generator.
9. Audio signal generator with a frequency of 20 Hz to 100 kHz.
10. Frequency counter.

Notes: Allow the set at least five minutes to warm up before attempting alignment. During alignment keep the signal generator output at the lowest level that will maintain a usable output from the set, except for FM stereo signal generator. Take much care, lest the grounding of FM sweep signal generator input should make multipaths which made FM IF alignment incorrect. To avoid this the grounding lead may be connected through 0.01 – 0.04 MFD capacitor to the tuner chassis when sweep generator is connected to the tuner section.

Generator modulation (AM) 30%, 400Hz
Generator modulation (FM) 22.5kHz, 400Hz
Generator modulation . . . . . .CH.L. or CH.R.
(FM stereo) 11.25kHz, 1000Hz Mod.

THE INSTRUCTION OF FREQUENCY ADJUSTMENT

In order to comply with FTZ rule Nr. 358 1970, please fix the low end of dial frequency (87.5 MHz) and the high end of dial frequency (107 MHz) on FM band, by adjusting oscillation coil (L105) and oscillation trimmer (TC3), respectively, as illustrated in Figure 16–1.

ALIGNMENT CHART

AM IF ALIGNMENT (Refer to Figures 12–1 and 16–1)

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		DIAL POINTER SETTING	SCOPE CONNECTION	ADJUSTMENT	REMARKS
			CONNECTION	FREQUENCY				
1	MW	IF	Thru 0.01μF to Q108 base as small as possible	455kHz (Sweep)	High end of Dial	Oscilloscope connected to R164	T103 T104 T105	Adjust for maximum output. Repeat 2 or 3 times.

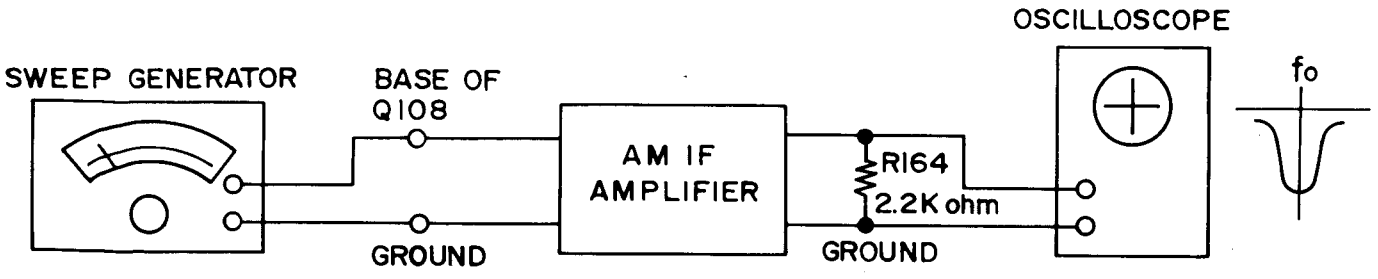


Figure 12–1 AM IF ALIGNMENT EQUIPMENT CONNECTIONS

AM RF ALIGNMENT (Refer to Figures 13–1 and 16–1)

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		DIAL POINTER SETTING	METER CONNECTION	ADJUSTMENT	REMARKS
			CONNECTION	FREQUENCY				
1	LW	Band Coverage	Radiated Signal as small as possible	145kHz	Low end of Dial	VTVM connected to R164	Oscillation coil L110	Same as above
2	LW		Radiated Signal as small as possible	385kHz	High end of Dial	Same as above	Oscillation Trimmer TC9	Same as above
3	LW	Tracking	Radiated Signal as small as possible	170kHz	170kHz	Same as above	Antenna coil L107 (Bobbin of LW)	Same as above
4	LW		Radiated Signal as small as possible	340kHz	340kHz	Same as above	Antenna Trimmer TC6	Same as above
5	MW	Band Coverage	Radiated Signal as small as possible	515kHz Modulated	Low end of Dial	Same as above	Oscillation coil L109	Same as above
6	MW		Radiated Signal as small as possible	1650kHz Modulated	High end of Dial	Same as above	Oscillation Trimmer TC8	Same as above
7	MW	Tracking	Radiated Signal as small as possible	600kHz	600kHz	Same as above	Antenna coil L107 (Bobbin of MW)	Same as above
8	MW		Radiated Signal as small as possible	1400kHz	1400kHz	Same as above	Antenna Trimmer TC5	Same as above
9	SW	Band Coverage	Thru 10PF to AM EXT ANT. as small as possible	5.7MHz	Low end of Dial	Same as above	Oscillation coil L108	Same as above
10	SW		Thru 10PF to AM EXT ANT. as small as possible	18.3MHz	High end of Dial	Same as above	Oscillation Trimmer TC7	Same as above
11	SW	Tracking	Thru 10PF to AM EXT ANT. as small as possible	6.5MHz	6.5MHz	Same as above	Antenna coil L106	Same as above
12	SW		Thru 10PF to AM EXT ANT. as possible	16MHz	16MHz	Same as above	Antenna Trimmer TC4	Same as above

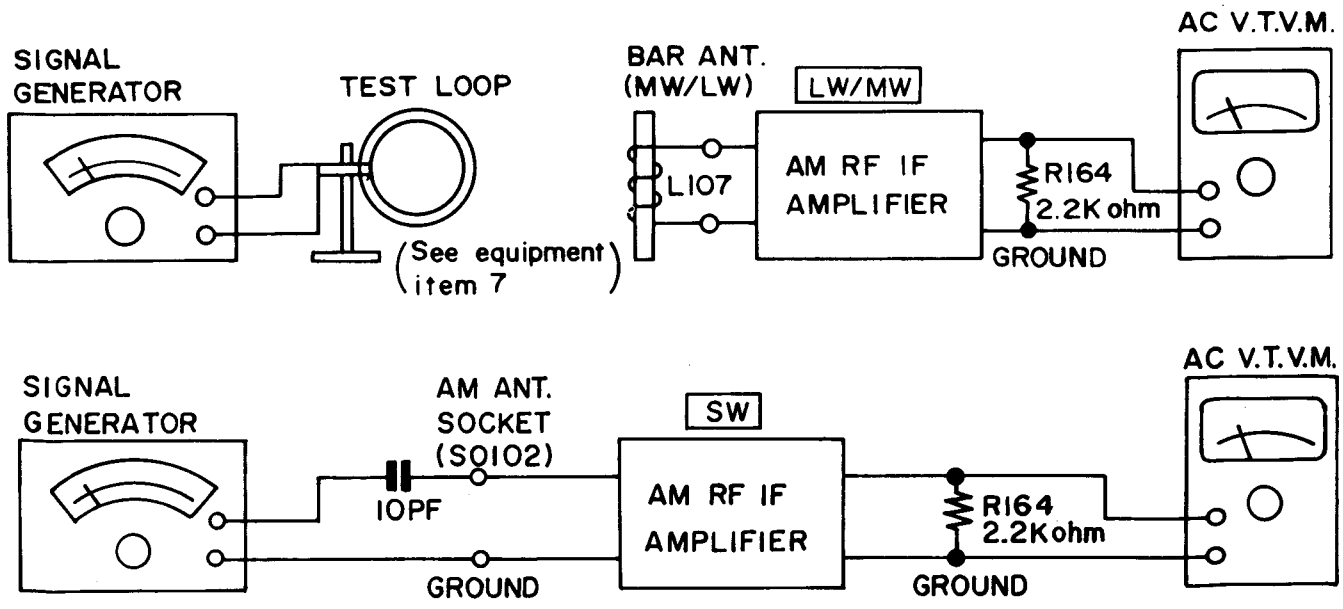


Figure 13–1 AM RF ALIGNMENT EQUIPMENT CONNECTIONS

FM IF ALIGNMENT (Refer to Figures 15–1 and 16–1)

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		DIAL POINTER SETTING	SCOPE CONNECTION	ADJUSTMENT	REMARKS
			CONNECTION	FREQUENCY				
1	FM	IF	Thru 2 PFD to TP101	10.7MHz ± 300kHz	High end of Dial	TP102	T102	Adjust "S" curve at maximum. Adjust 10.7MHz at the center of "S" curve. (Refer to Figure 15–1Ⓐ)
2	FM		Thru 2 PFD to TP101	10.7MHz ± 400kHz	High end of Dial	TP102	T101	Adjust the maximum noise. (Refer to Fugure 15–1Ⓑ)
3	Repeat adjustment to obtain "S" curve as shown in Figure 15–1.							

FM RF ALIGNMENT (Refer to Figures 15–2 and 16–1)

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		DIAL POINTER SETTING	METER CONNECTION	ADJUSTMENT	REMARKS
			CONNECTION	FREQUENCY				
1	FM	Band Coverage	FM ANT terminal (through 300ohm matching pad)	87.4MHz Modulated	Low end of Dial	TP102	Oscillation coil L105	Adjust for maximum output. Repeat 2 or 3 times.
2	FM		Same as above	109MHz Modulated	High end of Dial	Same as above	Oscillation trimmer TC3	Same as above
3	FM	Tracking	Same as above	90MHz	90MHz Modulated	Same as above	ANT. coil L101 RF coil L102	Same as above
4	FM		Same as above	106MHz	106MHz Modulated	Same as above	RF trimmer TC2 ANT trimmer TC1	Same as above
5	If necessary, repeat step 1–step 4.							

FM MPX ALIGNMENT (Refer to Figures 15–3 and 16–1)

STEP	BAND	TEST STAGE	STEREO SIGNAL GENERATOR		TUNING FREQUENCY	METER CONNECTION	ADJUSTMENT	REMARKS
			CONNECTION	MOD. FREQUENCY				
1	FM	STEREO (MONO: OFF)	FM-ANT. Terminal	98MHz Modulated	98MHz	TP103 (Through a 100kohm)	VR101	Adjust for 19 ± 0.1kHz

Note: Output level of FM Signal Generator which is modulated by a FM Stereo Signal Generator shall be 1 mV (60 dB).

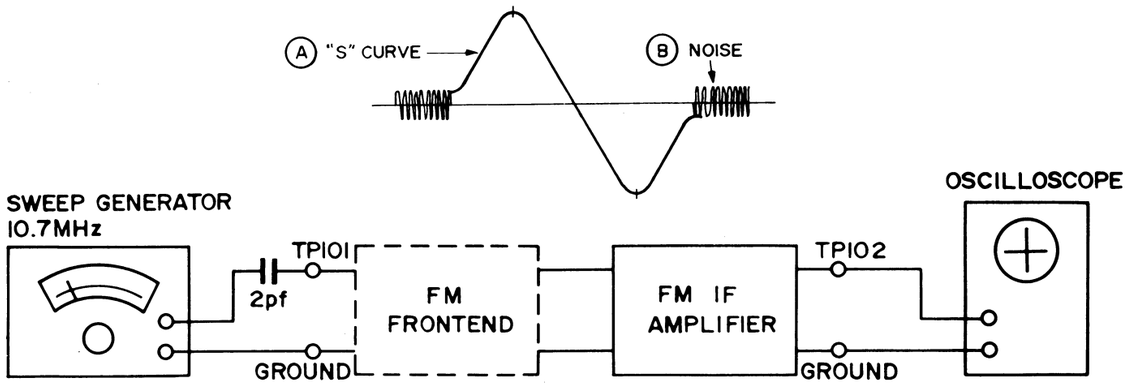


Figure 15–1 FM IF ALIGNMENT EQUIPMENT CONNECTIONS

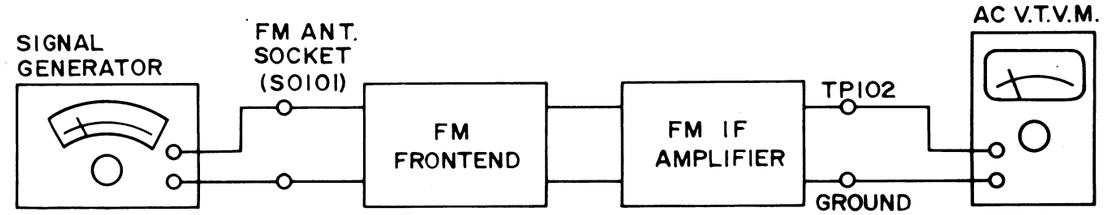


Figure 15–2 FM RF ALIGNMENT EQUIPMENT CONNECTIONS

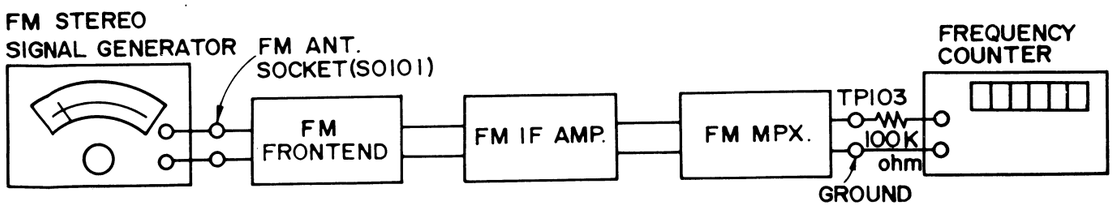
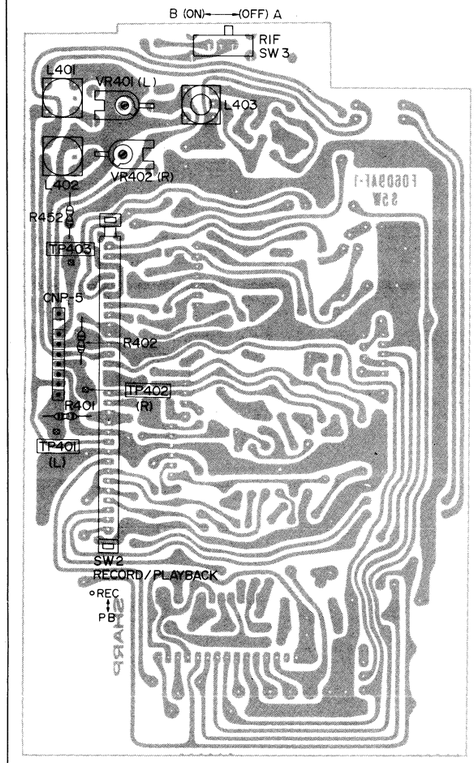
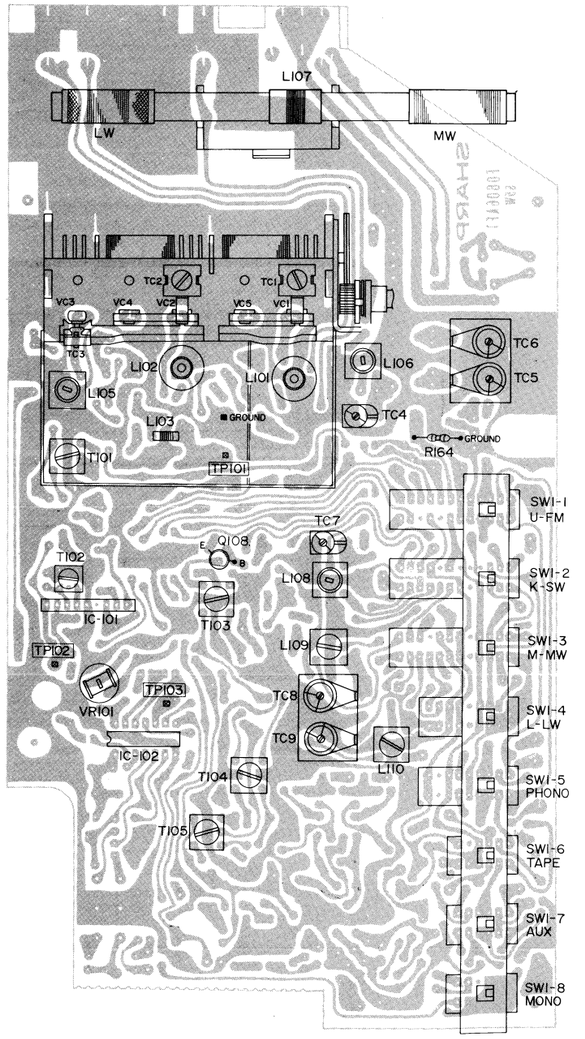


Figure 15–3 FM MPX ALIGNMENT EQUIPMENT CONNECTIONS

TAPE DECK

TUNER





*RECORD AMPLIFIER BIAS OSCILLATOR ADJUSTMENT

VR401 } : Bias adjust
VR402 }

*AM ALIGNMENT

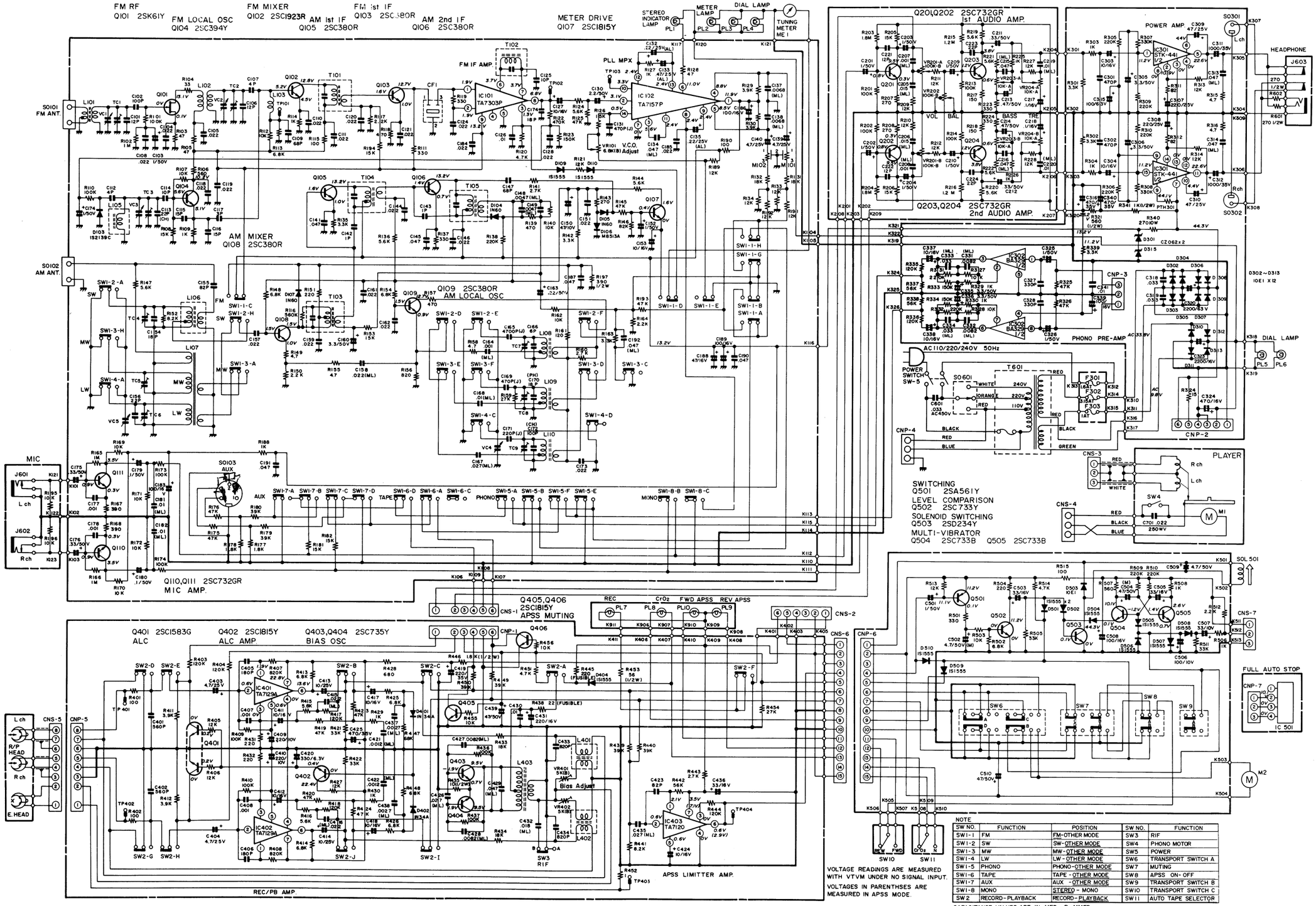
L106: SW antenna coil
L107: LW/MW bar antenna
L108: SW oscillation coil
L109: MW oscillation coil
L110: LW oscillation coil
T103: AM 1st I.F.T.
T104: AM 2nd I.F.T.
T105: AM detector
TC4 : SW antenna trimmer
TC5 : MW antenna trimmer
TC6 : LW antenna trimmer
TC7 : SW oscillation trimmer
TC8 : MW oscillation trimmer
TC9 : LW oscillation trimmer

*FM ALIGNMENT

L101: FM antenna coil
L102: FM RF coil
L105: FM oscillation coil
T101: FM I.F.T.
T102: FM discriminator
TC1 : FM antenna trimmer
TC2 : FM RF trimmer
TC3 : FM oscillation trimmer

VR101: V.C.O. adjust

Figure 16–1 ALIGNMENT POINT



VOLTAGE READINGS ARE MEASURED WITH VTVM UNDER NO SIGNAL INPUT.

VOLTAGES IN PARENTHSES ARE MEASURED IN APSS MODE.

NOTE

SW NO.	FUNCTION	POSITION	SW NO.	FUNCTION
SW1-1	FM	FM-OTHER MODE	SW3	RIF
SW1-2	SW	SW-OTHER MODE	SW4	PHONO MOTOR
SW1-3	MW	MW-OTHER MODE	SW5	POWER
SW1-4	LW	LW-OTHER MODE	SW6	TRANSPORT SWITCH A
SW1-5	PHONO	PHONO-OTHER MODE	SW7	MUTING
SW1-6	TAPE	TAPE-OTHER MODE	SW8	APSS ON-OFF
SW1-7	AUX	AUX -OTHER MODE	SW9	TRANSPORT SWITCH B
SW1-8	MONO	STEREO-MONO	SW10	TRANSPORT SWITCH C
SW2	RECORD-PLAYBACK	RECORD-PLAYBACK	SW11	AUTO TAPE SELECTOR

CAPACITANCE VALUES ARE IN MFD, P=MMFD
RESISTANSE VALUES ARE IN OHM, K=1000

(Specifications or wiring diagrams of this model are subject to change for the improvement without prior notice.)

Figure 17–1 SCHEMATIC DIAGRAM

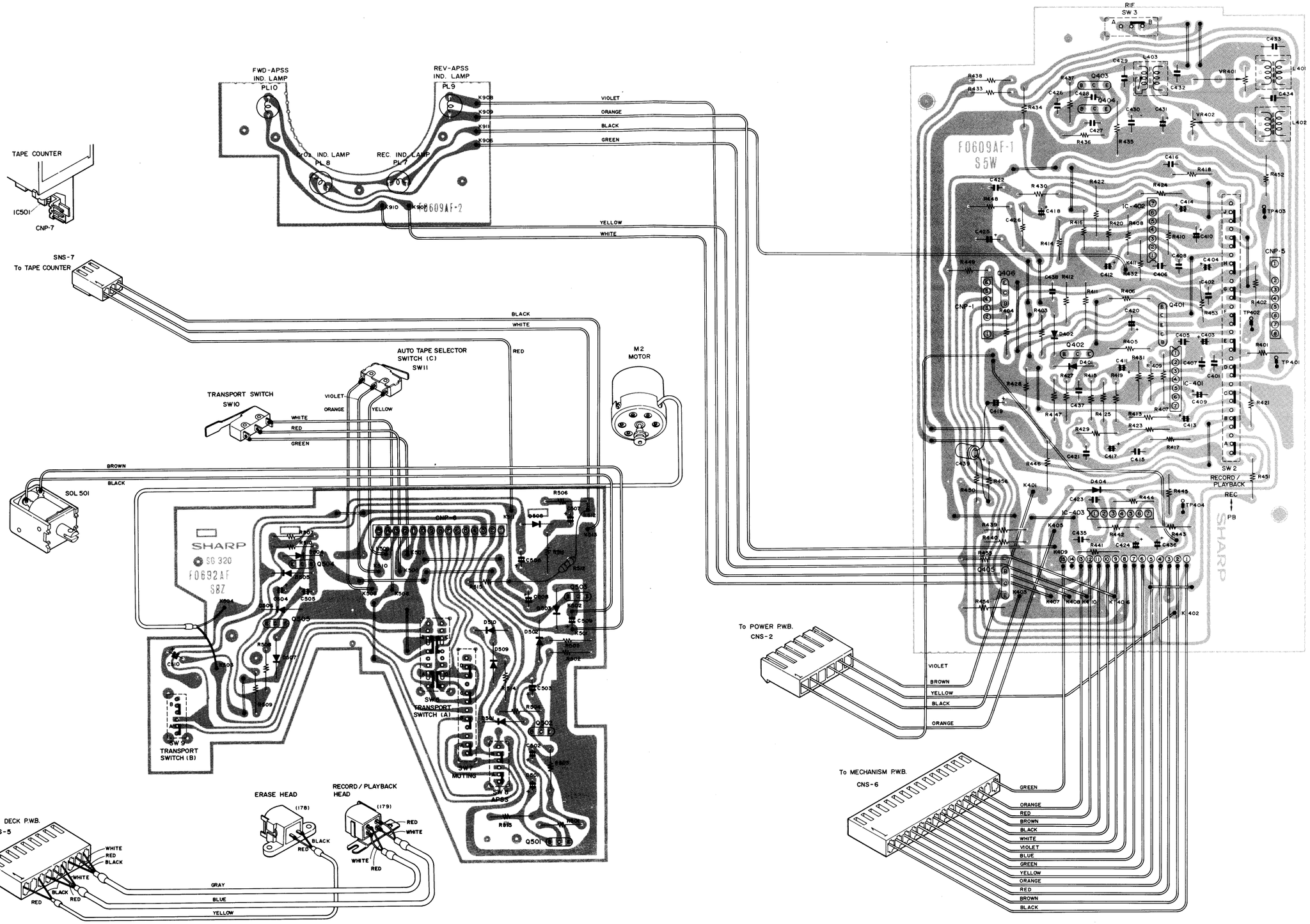


Figure 19–1 WIRING SIDE OF MECHANISM/TAPE DECK P.W. BOARD

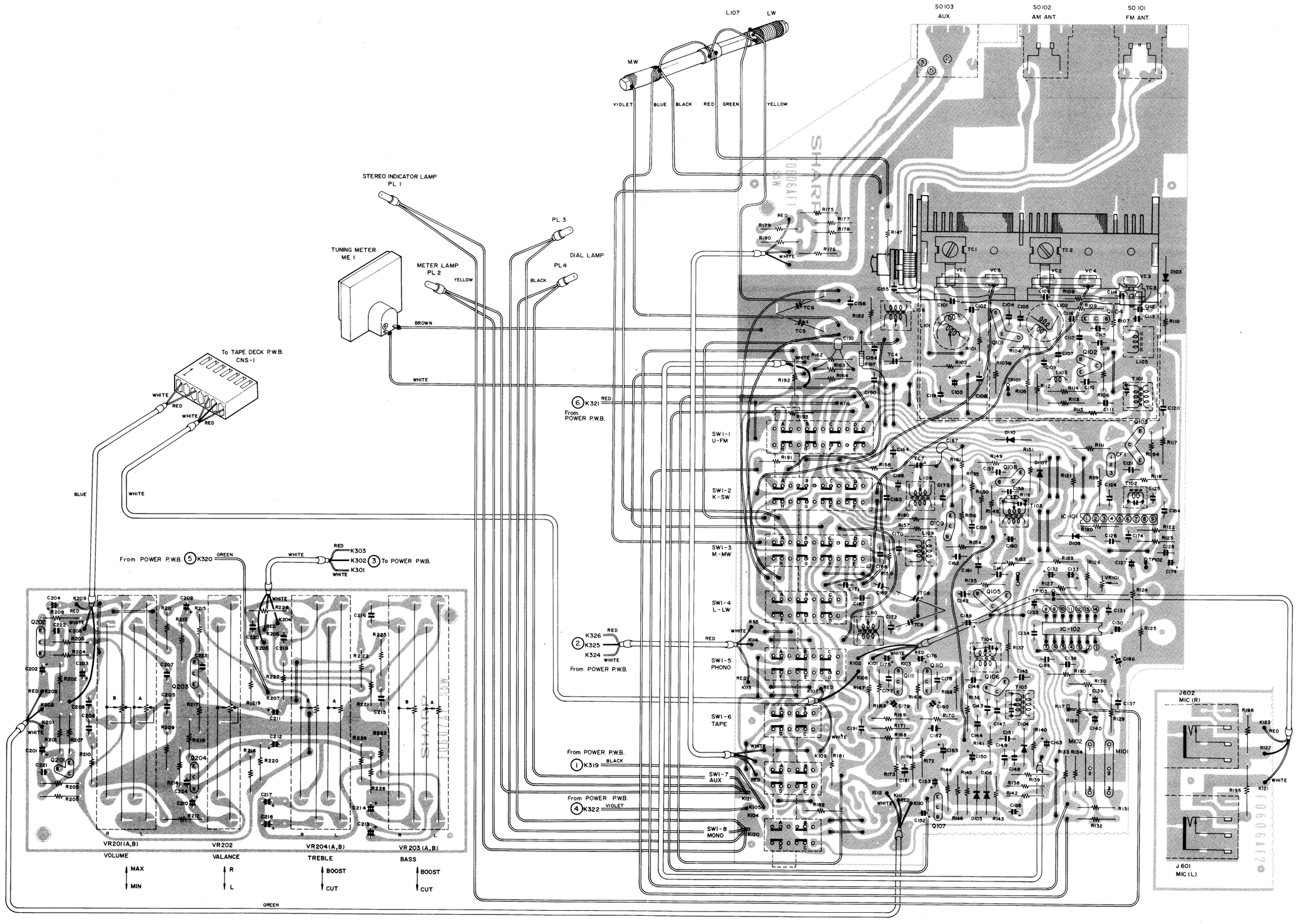


Figure 21–1 WIRING SIDE OF TONE/TUNER P.W. BOARD

AC 110/220/240 V, 50 Hz

	PART NO.	BUSHING	CONNECTION Ⓐ	CONNECTION Ⓑ
KEMA	QACCV0001AGZZ	LBSHC0004AGZZ	BLUE	BLACK
—	———			
EXMAA	QACCZ0053AF00	LBSHC0053AFZZ	BLACK	BLACK
A-CLUB	QACCZ0002TA0F		BROWN	BROWN

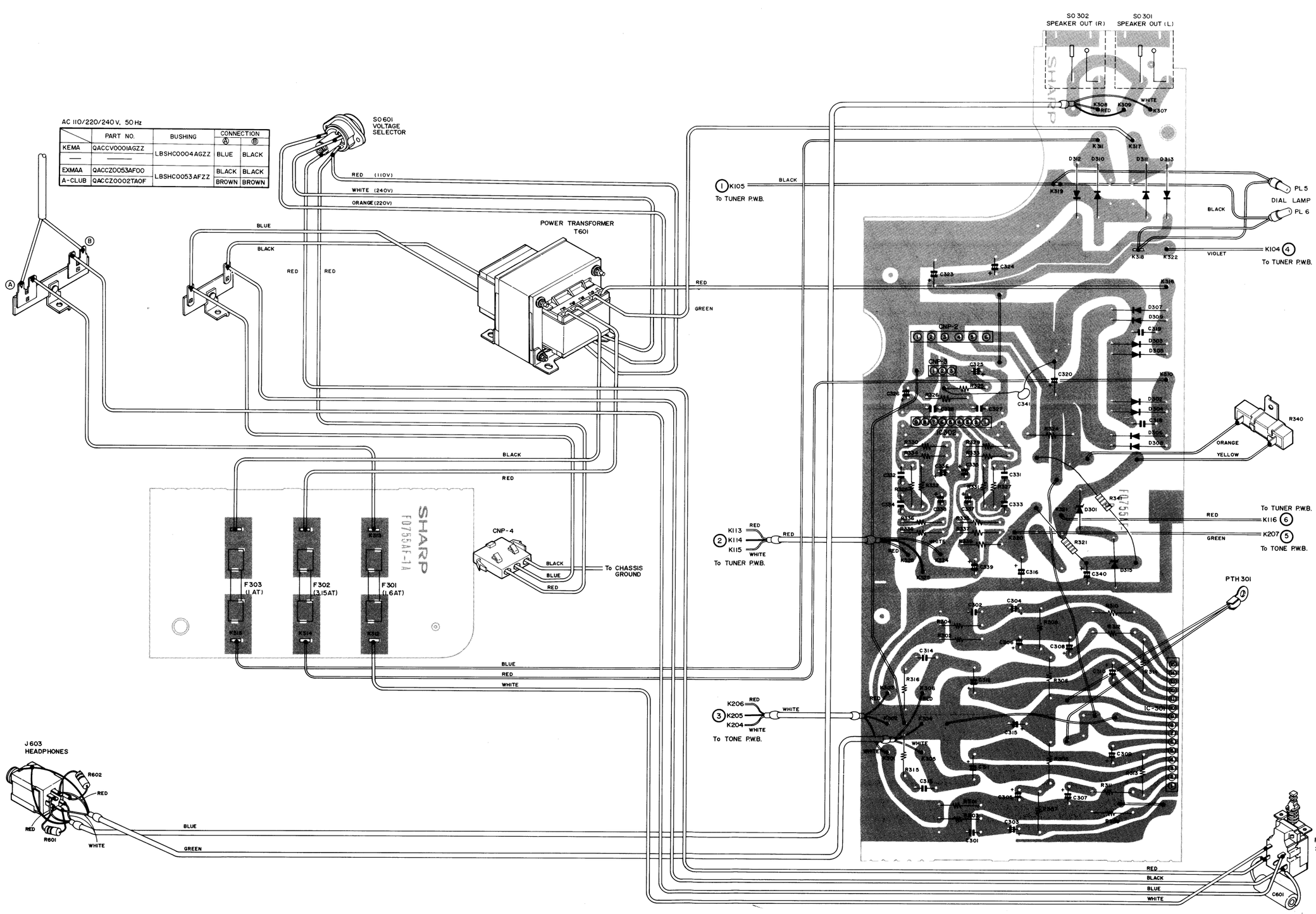


Figure 23–1 WIRING SIDE OF FUSE/POWER P.W. BOARD

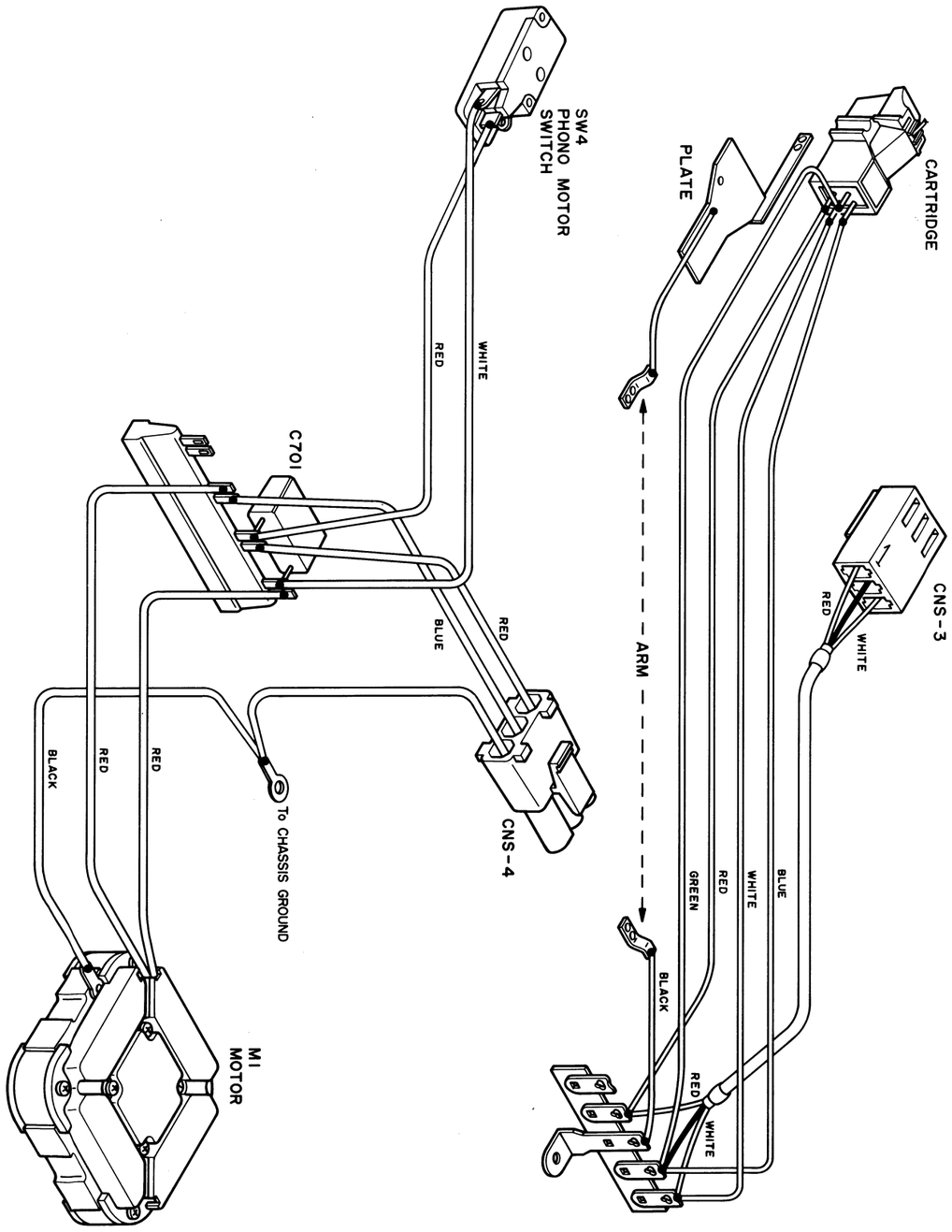
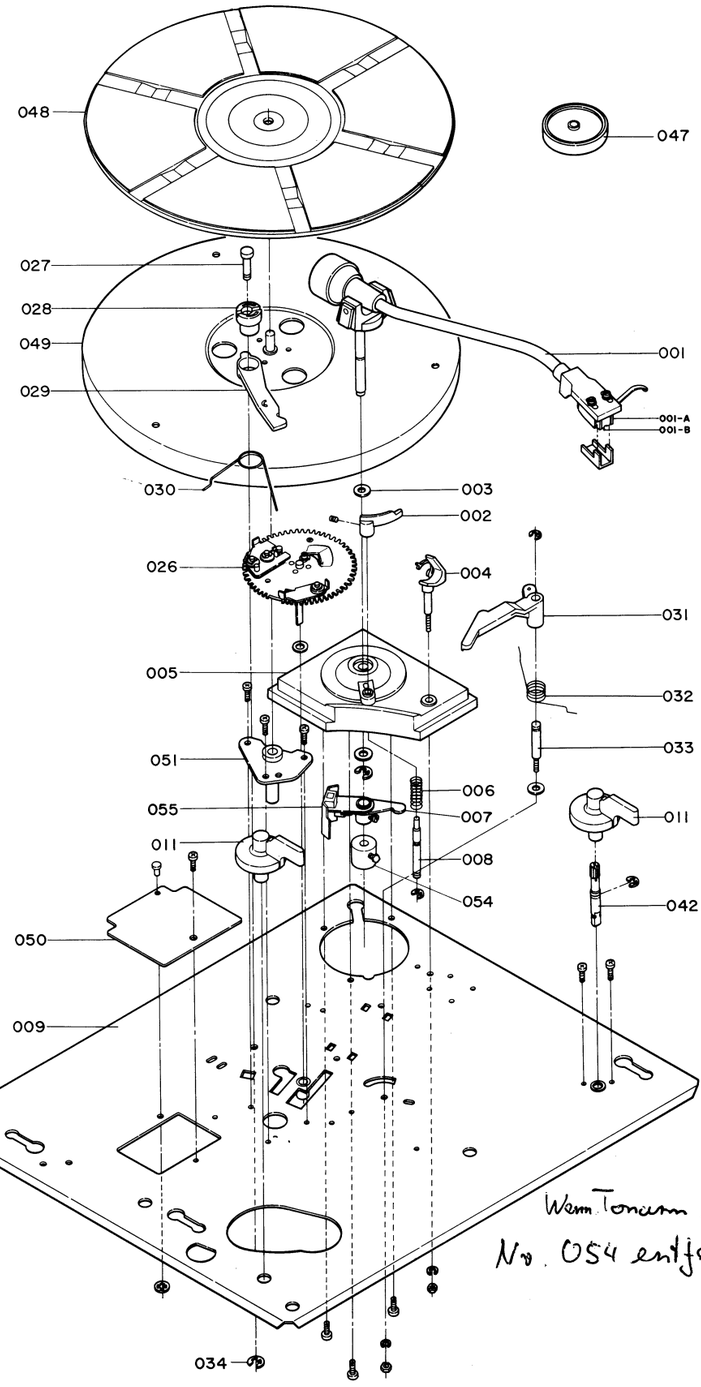


Figure 25–1 WIRING CONNECTION OF RECORD PLAYER



Wenn Tonarm Recht Gewicht
No. 054 entfernen Achse polie

Figure 26–1 PLAYER EXPLODED TOP VIEW

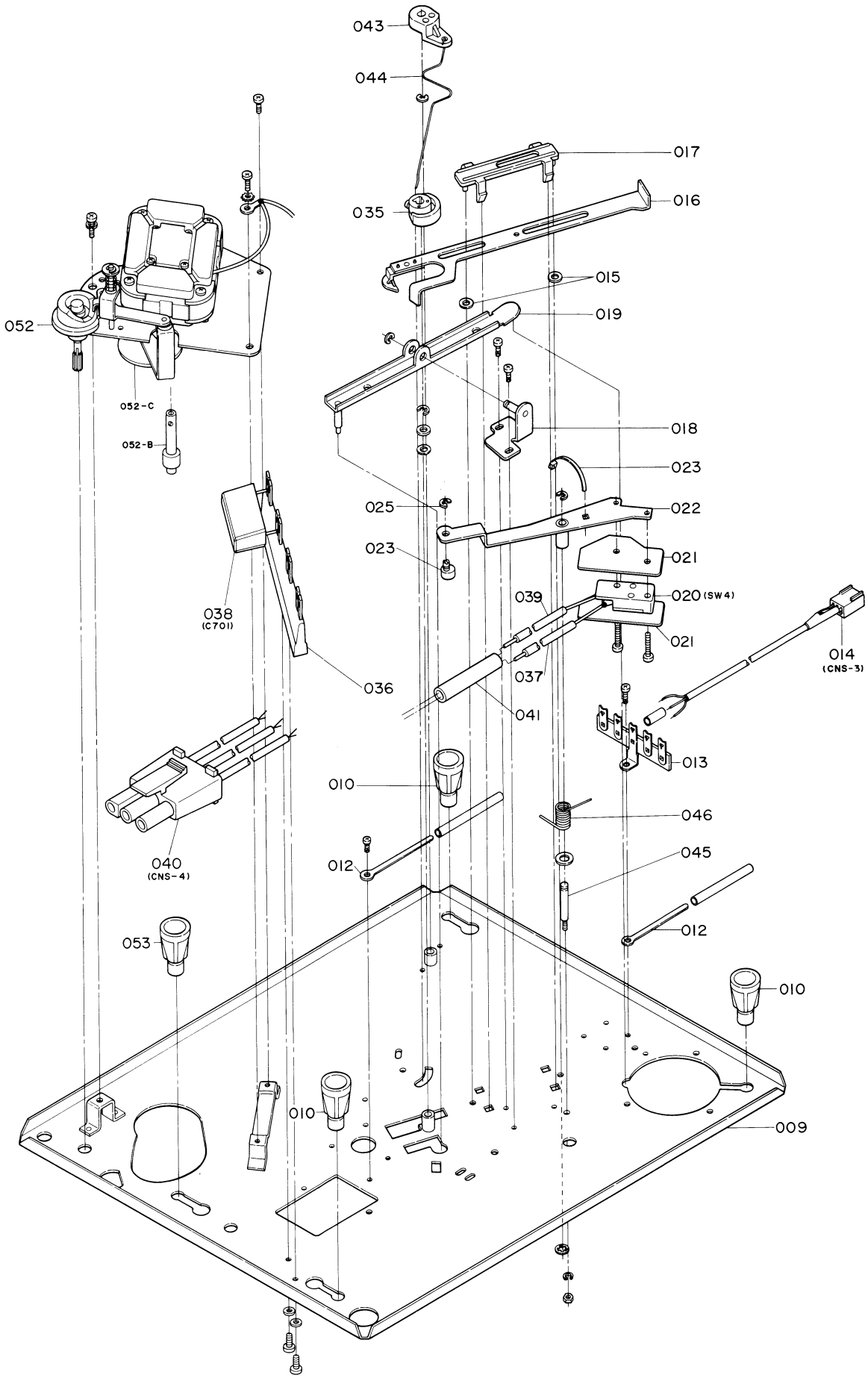


Figure 27–1 PLAYER EXPLODED BOTTOM VIEW

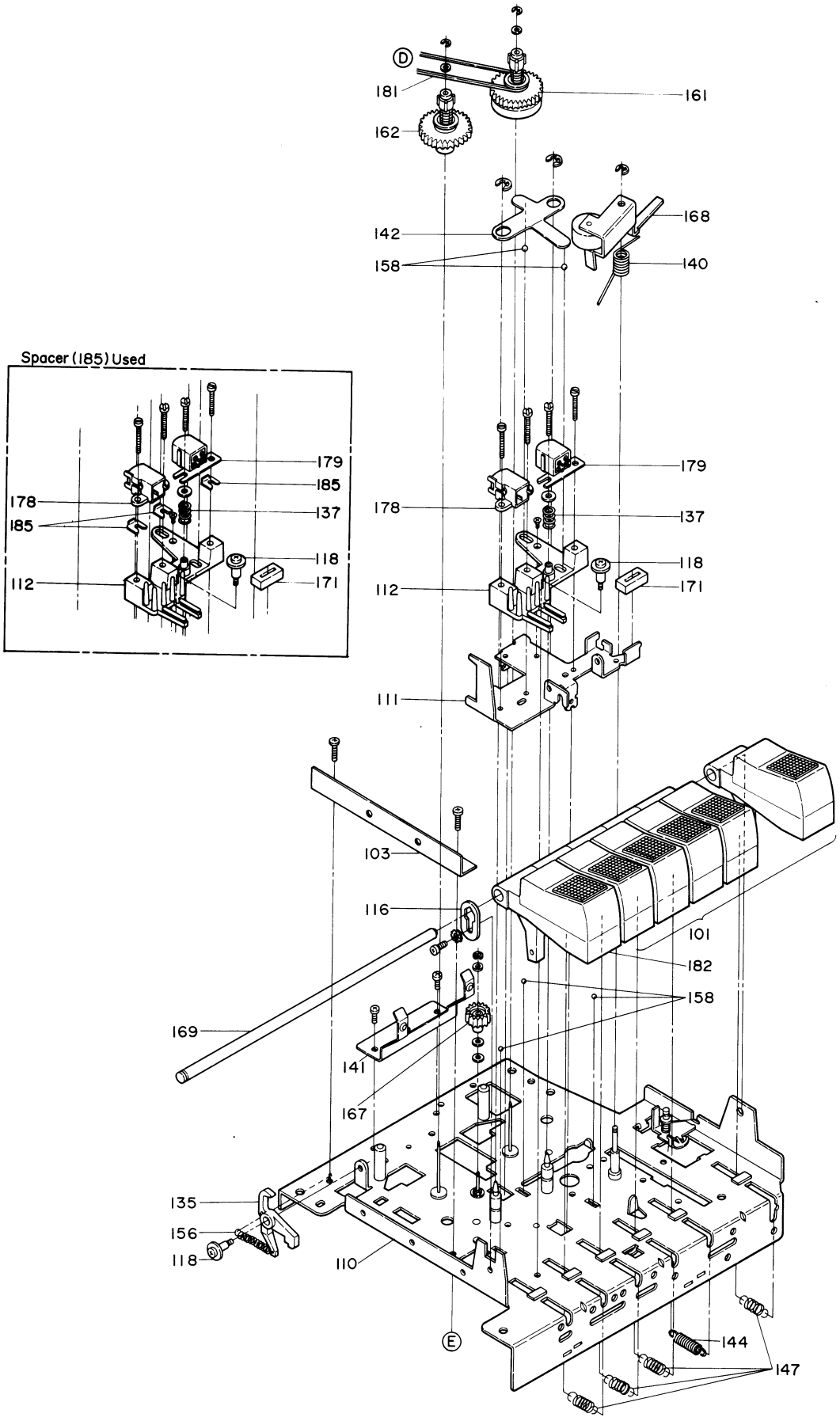


Figure 28–1 TAPE DECK MECHANISM EXPLODED TOP VIEW

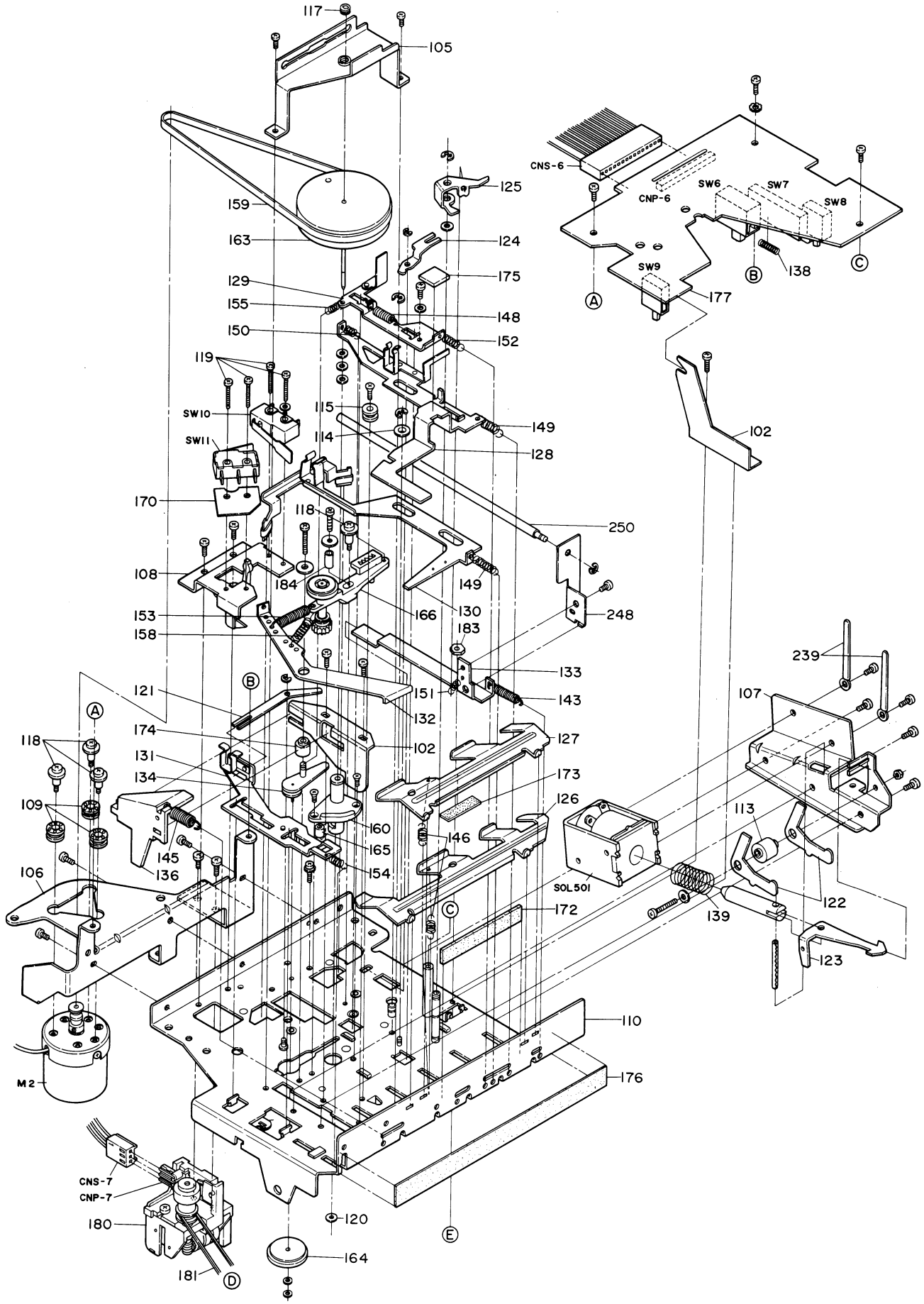
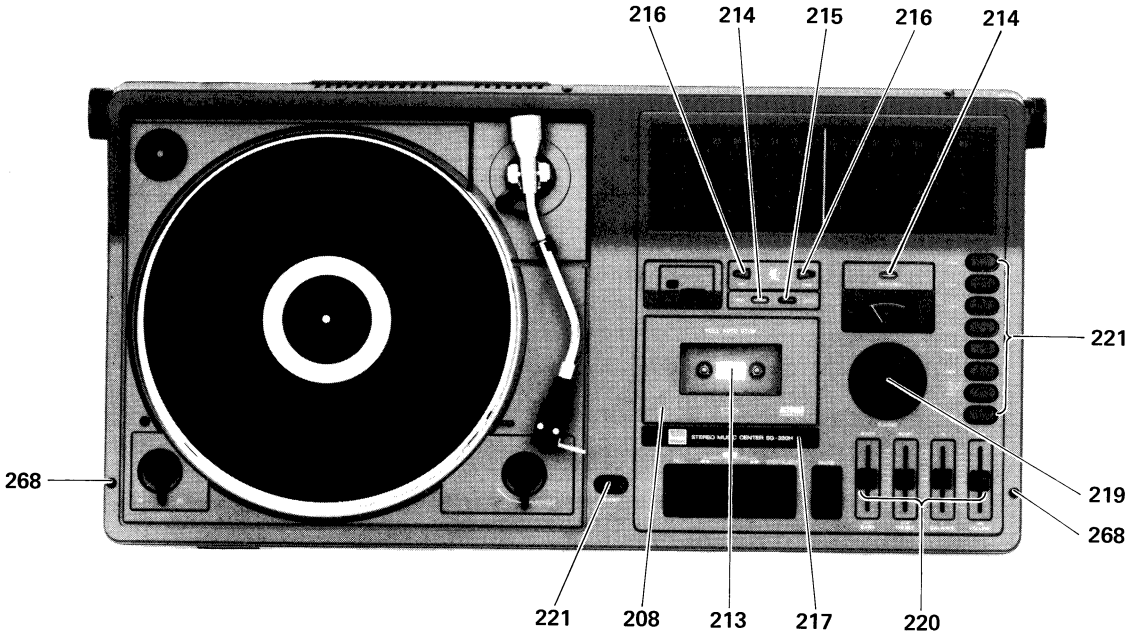
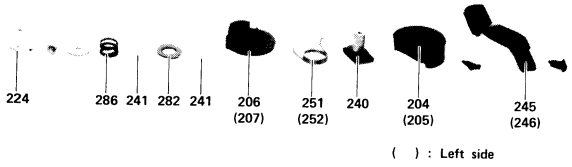
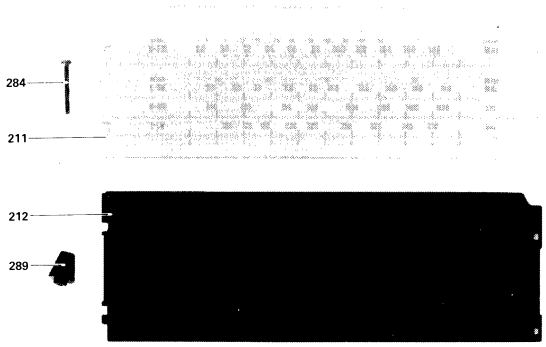


Figure 29–1 TAPE DECK MECHANISM EXPLODED BOTTOM VIEW







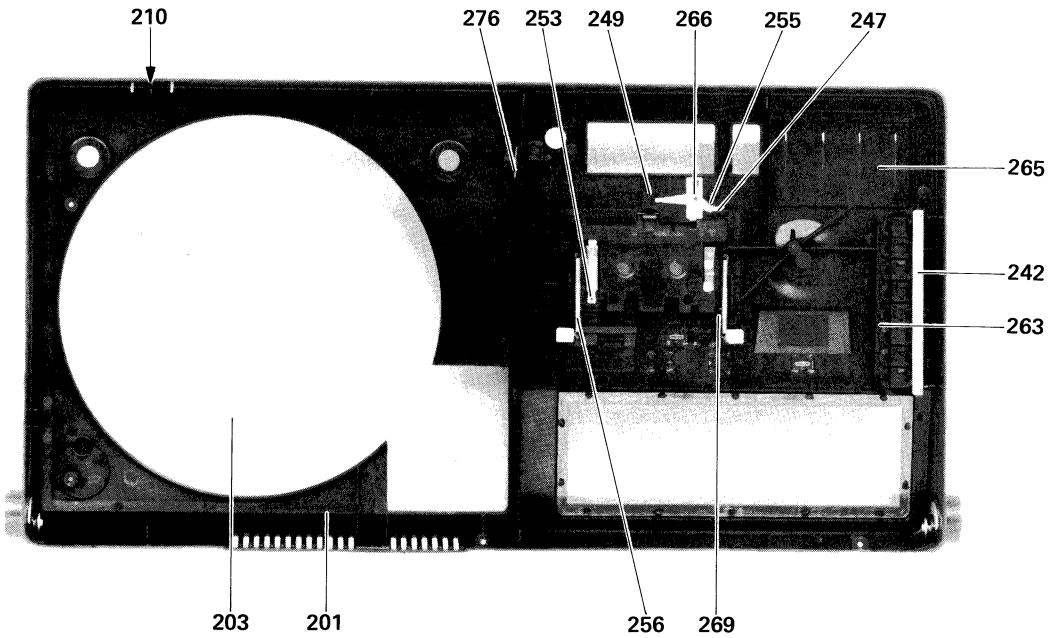
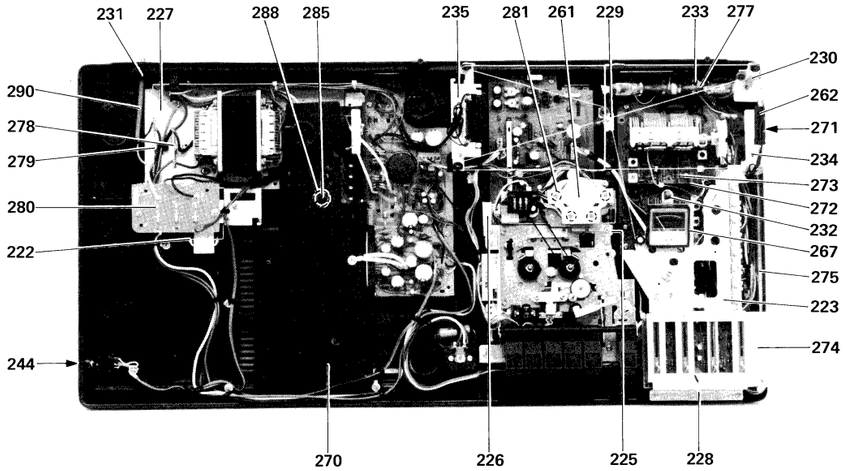
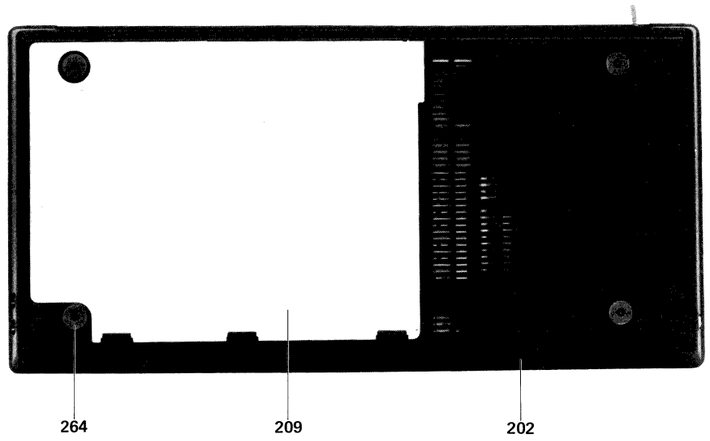


Figure 30–1 MISCELLANEOUS PARTS GUIDE





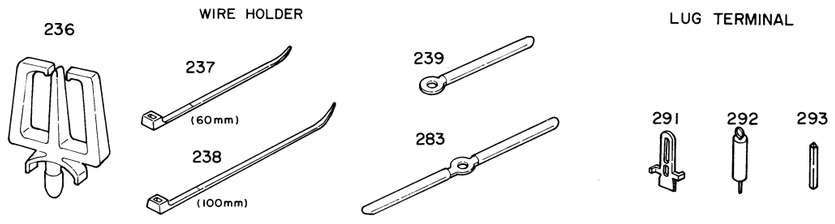


Figure 31–1 MISCELLANEOUS PARTS GUIDE

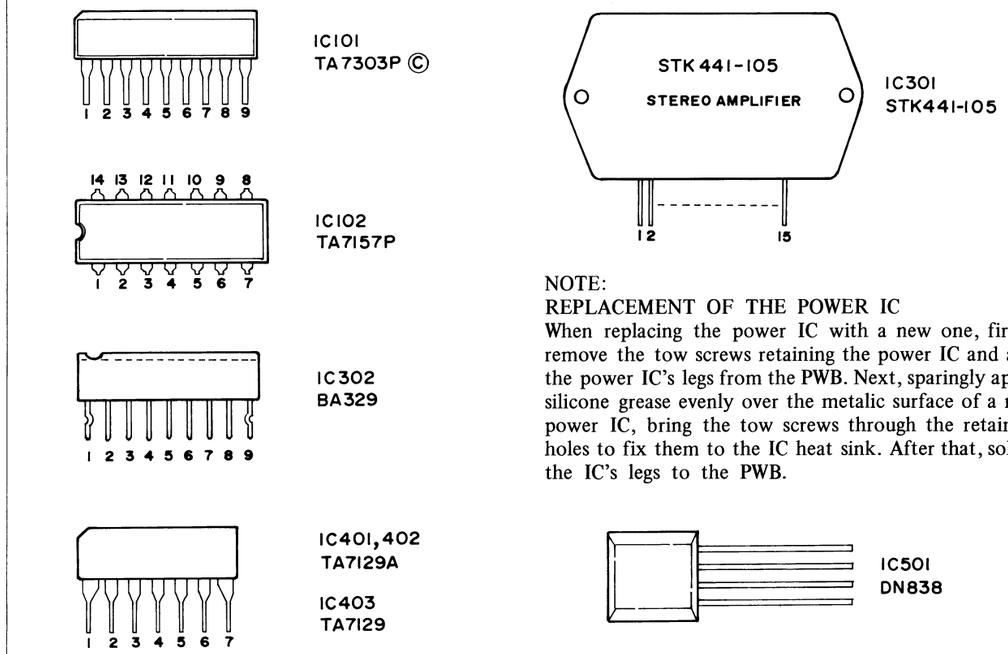

IC101
TA7303P ©
1 2 3 4 5 6 7 8 9
IC102
TA7157P
14 13 12 11 10 9 8
1 2 3 4 5 6 7
IC302
BA329
1 2 3 4 5 6 7 8 9
IC401,402
TA7129A
IC403
TA7129
1 2 3 4 5 6 7
STK441-105
STEREO AMPLIFIER
1 2
15
IC301
STK441-105
NOTE:
REPLACEMENT OF THE POWER IC
When replacing the power IC with a new one, firstly remove the tow screws retaining the power IC and also the power IC's legs from the PWB. Next, sparingly apply silicone grease evenly over the metalic surface of a new power IC, bring the tow screws through the retaining holes to fix them to the IC heat sink. After that, solder the IC's legs to the PWB.
IC501
DN838

Figure 32–1 TYPES OF IC

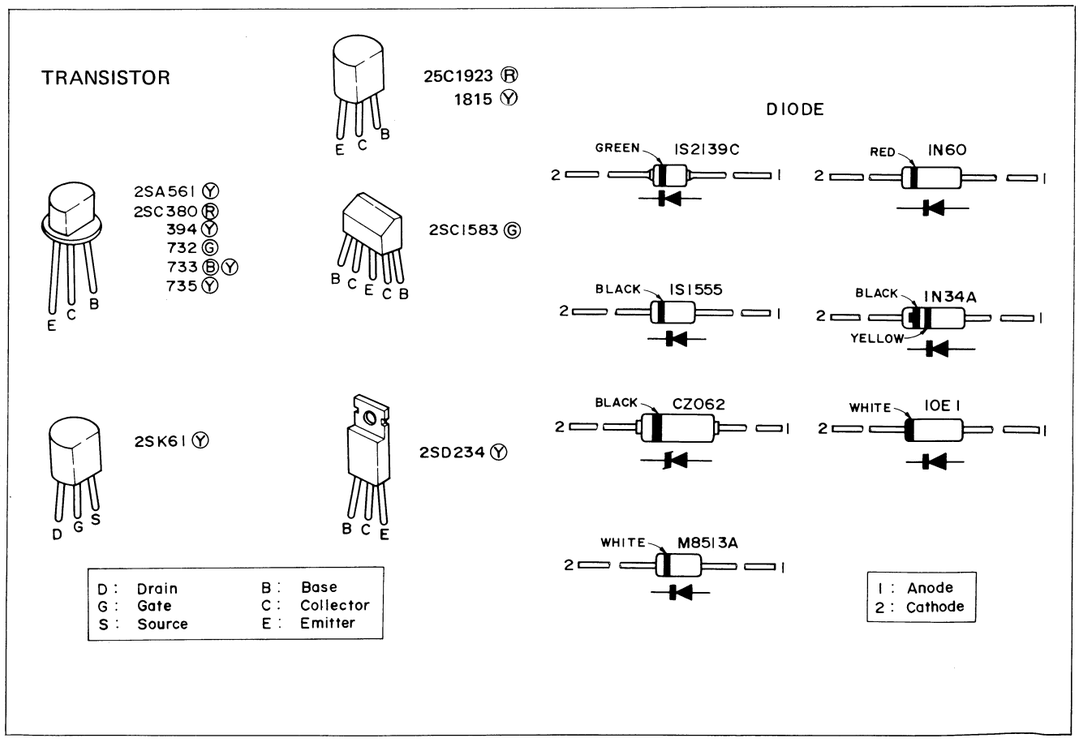


Figure 32–2 TYPES OF TRANSISTOR, DIODE

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.
1. MODEL NUMBER 2. REF. NO.
3. PART NO. 4. DESCRIPTION

REF. NO.	PART NO.	DESCRIPTION	CODE
	INTEGRATED CIRCUITS		
IC101	VHITA7303P2/F	FM IF Amp. and Detector (TA7303P Ⓒ)	AM
IC102	VHITA7157P/-1	PLL MPX Demodulator (TA7157P)	AN
IC301	VHISTK-441X-1	Power Amp. (STK-441-105)	BA
IC302	RH-IX1084AFZZ	Phono Pre-Amp. (BA329)	AH
IC401, IC402	RH-IX0437AGZZ	Record/Playback Amp. (TA7129A)	AH
IC403	RH-IX0408AGZZ	APSS Limiter Amp. (TA7120)	AM
IC501	RH-IX1075AFZZ	Full Auto Stop Senser (DN838)	AL
	TRANSISTORS		
Q101	VS2SK61-Y//-1	FM RF Amp. (2SK61Ⓨ)	AF
Q102	VS2SC1923R/-1	FM Mixer (2SC1923Ⓡ)	—
Q103	VS2SC380-R/-1	FM 1st IF Amp. (2SC380Ⓡ)	AD
Q104	VS2SC394-Y/-1	FM Local Oscillator (2SC394Ⓨ)	AD
Q105	VS2SC380-R/-1	AM 1st IF Amp. (2SC380Ⓡ)	AD
Q106	VS2SC380-R/-1	AM 2nd IF Amp. (2SC380Ⓡ)	AD
Q107	VS2SC1815Y/-1	Meter Drive (2SC1815 Ⓨ)	—
Q108	VS2SC380-R/-1	AM Mixer (2SC380Ⓡ)	AD
Q109	VS2SC380-R/-1	AM Local Oscillator (2SC380Ⓡ)	AD
Q110, Q111	VS2SC732-G/-1	Mic. Amp. (2SC732Ⓖ)	AD
Q201, Q202	VS2SC732-G/-1	1st Audio Amp. (2SC732Ⓖ)	AD
Q203, Q204	VS2SC732-G/-1	2nd Audio Amp. (2SC732Ⓖ)	AD
Q401	VS2SC1583G-1F	ALC (2SC1583Ⓖ)	AF
Q402	VS2SC1815Y/-1	ALC Amp. (2SC1815 Ⓨ)	—
Q403, Q404	VS2SC735-Y/1G	Bias Oscillator (2SC735Ⓨ)	AD
Q405, Q406	VS2SC1815Y/-1	Audio Muting (2SC1815 Ⓨ)	—
Q501	VS2SA561-Y/-1	Switching (2SA561Ⓨ)	AD
Q502	VS2SC733-Y/-1	Level Comparison (2SC733Ⓨ)	AD
Q503	VS2SD234-Y/-3	Solenoid Switching (2SD234Ⓨ)	AG
Q504, Q505	VS2SC733-B/-1	Multivibrator, Auto Stop (2SC733Ⓑ)	AD
	DIODES		
D103	VHC1S2139-C-1	FM AFC (1S2139C)	AE
D104	VHD1N60////-1	AM Detector (1N60)	AB
D105	VHD1N60////-1	Rectifier for Meter (1N60)	AB
D106	VHVM8513A-R-1	Voltage Regulator (M8513A)	AB
D107	VHD1N60////-1	AM Overload (1N60)	AB
D109, D110	VHD1S1555V/1G	Level Shift for Meter (1S1555)	AC
D301	VHECZ-062//-1	Voltage Regulator (CZ062)	AE
D302, D303, D304, D305, D306, D307, D308, D309	RH-DX1006AFZZ	Rectifier (10E1)	AC
D310, D311, D312, D313	VHD10E1////-1	Rectifier (10E1)	AC
D315	VHECZ-062//-1	Voltage Regulator (CZ062)	AE
D401, D402	VHD1N34A-Y/1G	Rectifier for ALC (1N34A)	AB
D404	VHD1S1555V/1G	Back Current Protection for Audio Muting (1S1555)	AC
D501	VHD1S1555V/1G	Back Current Protection for APSS Muting (1S1555)	AC
D502	VHD1S1555V/1G	Back Current Protection for APSS Drive (1S1555)	AC
D503	RH-DX1006AFZZ	Surge Absorber (10E1)	AC
D504	VHD1S1555V/1G	Back Current Protection for Auto Stop (1S1555)	AC
D505	VHD1S1555V/1G	Level Shift (1S1555)	AC
D506	VHD1S1555V/1G	Rectifier for Auto Stop Senser (1S1555)	AC
D507	VHD1S1555V/1G	Level Shift (1S1555)	AC
D508	VHD1S1555V/1G	Rectifier for Auto Stop Senser (1S1555)	AC
D509, D510	VHD1S1555V/1G	Back Current Protection for APSS Muting (1S1555)	AC
	COILS		
L101	RCILA0354AFZZ	FM Antenna	AD
L102	RCILR0303AFZZ	FM RF	AE
L103	RCILC0003AGZZ	FM IF Idler	AB
L105	RCILB0418AFZZ	FM Local Oscillation	AD
L106	RCILA0410AFZZ	SW Antenna	AE
L107	RCILA0409AFZZ	LW/MW Bar Antenna	AN
L108	RCILB0415AFZZ	SW Oscillator	AE
L109	RCILB0416AFZZ	MW Oscillator	AD
L110	RCILB0417AFZZ	LW Oscillator	AD
L401, L402	RCILB0420AFZZ	Bias Transformer	AE
L403	RCILB0419AFZZ	Bias Oscillator	AE

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
	TRANSFORMERS		
T101	RCILI0204AFZZ	FM IF	AD
T102	RCILI0208AFZZ	FM Discriminator	AD
T103	RCILI0135AFZZ	AM 1st IF	AD
T104	RCILI0136AFZZ	AM 2nd IF	AD
T105	RCILI0161AFZZ	AM Detector	AD
T601	RTRNP0547AFZZ	Power	**
	CONTROLS		
VC1, VC2, VC3, VC4, VC5, TC1, TC2	RVC-C0055AFZZ	Variable Capacitors, Tuning with Trimmers TC1: FM Antenna Trimmer TC2: FM RF Trimmer	AX
TC3	RTO-H1031AGZZ	FM Oscillation Trimmer	AC
TC4	RTO-H1004AFZZ	SW Antenna Trimmer	AC
TC5, TC6	RTO-H2011AGZZ	Trimmer Assembly TC5: MW Antenna Trimmer TC6: LW Antenna Trimmer	AD
TC7	RTO-H1004AFZZ	SW Oscillator Trimmer	AC
TC8, TC9	RTO-H2011AGZZ	Trimmer Assembly TC8: MW Oscillation Trimmer TC9: LW Oscillation Trimmer	AD
VR101	RVR-M0077AGZZ	6.8K ohm (B) VCO Adjust	AG
VR201 (A, B)	RVR-Q0056AFZZ	100K ohm (B) Volume	AK
VR202	RVR-Q0057AFZZ	100K ohm (B) Balance	AG
VR203 (A, B)	RVR-P0059AFZZ	10K ohm (A) Bass	AK
VR204 (A, B)	RVR-P0059AFZZ	10K ohm (A) Treble	AK
VR401, VR402	RVR-M0126AFZZ	5K ohm (B) Bias Adjustment	AC
	CERAMIC FILTER		
CF1	RFILF0053AFZZ	FM IF	AE
	PACKAGED CIRCUITS		
M101, M102	RMPTA0064AFZZ	Filter, 38kHz	AE
	ELECTROLYTIC CAPACITORS		
C103	VCEAAU1HW105A	1MFD, 50V, +75 −10%	AB
C127	VCEAAU1CW106Y	10MFD, 16V, +50 −10%	AB
C130	VCEALU1HW225M	2.2MFD, 50V, ±20%	AD
C132	VCAAAU1EB224K	.22MFD, 25V, ±10%, Aluminum	AC
C133	VCAAAU1EB474K	.47MFD, 25V, ±10%, Aluminum	AC
C135	VCAAAU1EB224K	.22MFD, 25V, ±10%, Aluminum	AC
C139, C140	VCEAAU1EW475A	4.7MFD, 25V, +75 −10%	AB
C150	VCEAAU1AW476Y	47MFD, 10V, +50 −10%	AB
C152	VCEAAU1HW105A	1MFD, 50V, +75 −10%	AB
C153	VCEAAU1CW106Y	10MFD, 16V, +50 −10%	AB
C160	VCEAAU1HW335A	3.3MFD, 50V, +75 −10%	AB
C163	VCEALU1HW224M	.22MFD, 50V, ±20%	AB
C174	VCEAAU1HW105A	1MFD, 50V, +75 −10%	AB
C175, C176	VCEALU1HW334M	.33MFD, 50V, ±20%	AB
C179, C180	VCEALU1HW104M	.1MFD, 50V, ±20%	AB
C183	VCEAAU1CW107Y	100MFD, 16V, +50 −10%	AC
C186	VCEAAU1CW107Y	100MFD, 16V, +50 −10%	AC
C188	VCEAAU1CW476Y	47MFD, 16V, +50 −10%	AC
C189	VCEAAU1CW107Y	100MFD, 16V, +50 −10%	AC
C201, C202	VCEALU1HC105A	1MFD, 50V, +75 −10%	AC
C203, C204	VCEAAU1HW105A	1MFD, 50V, +75 −10%	AB
C209, C210	VCEAAU1HW105A	1MFD, 50V, +75 −10%	AB
C211, C212	VCEALU1HW334M	.33MFD, 50V, ±20%	AB
C213, C214	VCEALU1HW474M	.47MFD, 50V, ±20%	AB
C217, C218	VCEALU1CW104M	.1MFD, 16V, ±20%	AB
C303, C304	VCEAAU1CW106Y	10MFD, 16V, +50 −10%	AB
C305, C306	VCEAAU1HW335A	3.3MFD, 50V, +75 −10%	AB
C307, C308	VCEASU1EW227Y	220MFD, 25V, +50 −10%	AD
C309, C310	VCEASU1EW476Y	47MFD, 25V, +50 −10%	AC
C311, C312	VCEASU1VW108Y	1000MFD, 35V, +50 −10%	**
C315	VCEAAU1JW107Y	100MFD, 63V, +50 −10%	AD
C316	VCEAAU1VW477Y	470MFD, 35V, +50 −10%	AE
C320	RC-EZ1077AFZZ	2200MFD, 63V, +30 −10%	AN
C323	RC-EZS228AF1C	2200MFD, 16V	**
C324	RC-EZS477AF1C	470MFD, 16V	**
C325, C326	VCEAAU1HW105A	1MFD, 50V, +75 −10%	AB
C335, C336	VCEAAU1HW335A	3.3MFD, 50V, +75 −10%	AB
C337, C338	VCEAAU1CW106Y	10MFD, 16V, +50 −10%	AB
C339	VCEAAU1CW107Y	100MFD, 16V, +50 −10%	AC
C340	VCEAAU1VW477Y	470MFD, 35V, +50 −10%	AE
C403, C404	VCEAAU1EW475A	4.7MFD, 25V, +75 −10%	AB
C409, C410	VCEAAU1AW227Y	220MFD, 10V, +50 −10%	AC
C411, C412	VCEAAU1CW106Y	10MFD, 16V, +50 −10%	AB
C413, C414	VCEAAU1EW106Y	10MFD, 25V, +50 −10%	**
C417, C418	VCEAAU1CW106Y	10MFD, 16V, +50 −10%	AB
C419	VCEAAU1VW227Y	220MFD, 35V, +50 −10%	AD
C420	VCEAAU0JW337Y	330MFD, 6.3V, +50 −10%	AC
C424	VCEAAU1CW106Y	10MFD, 16V, +50 −10%	AB
C425	VCEAAU1VW477Y		AE
C431	VCEAAU1CW227Y	220MFD, 16V, +50 −10%	AC
C436	VCEAAU1CW336Y	33MFD, 16V, +50 −10%	AC
C439	VCEAAU1HW476Y	47MFD, 50V, +50 −10%	AC
C501	VCEAAU1HW105A	1MFD, 50V, +75 −10%	AB

**: Price will be quoted upon receipt of order.

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
C502	VCEALU1HW475M	4.7MFD, 50V, ±20%	AD
C503	VCEAAU1CW336Y	33MFD, 16V, +50 −10%	AC
C504	VCEALU1HW474M	.47MFD, 50V, ±20%	AB
C505	VCEAAU1CW336Y	33MFD, 16V, +50 −10%	AC
C506	VCEAAU1AW107Y	100MFD, 10V, +50 −10%	AB
C507	VCEAAU1AW336Y	33MFD, 10V, +50 −10%	AB
C508	VCEAAU1CW107Y	100MFD, 16V, +50 −10%	AC
C509	VCEAAU1HW475A	4.7MFD, 50V, +75 −10%	AB
C510	VCEAAU1HW476Y	47MFD, 50V, +50 −10%	AC

CAPACITORS

(Unless otherwise specified capacitors are 50V, +80 −20%, Ceramic type.)

C101	VCCSPU1HL120K	12PF, 50V, ±10%, Ceramic	**
C102	VCCSPU1HL101K	100PF, 50V, ±10%, Ceramic	**
C104, C105	VCKZPU1HF223Z	.022MFD	**
C106	VCCSPU1HL120K	12PF, 50V, ±10%, Ceramic	**
C107	VCCSPU1HL4R0C	4PF, 50V, ±.25PF, Ceramic	**
C108	VCKZPU1HF223Z	.022MFD	**
C109	VCCSPU1HL680K	68PF, 50V, ±10%, Ceramic	**
C110, C111	VCKZPU1HF223Z	.022MFD	**
C112	VCCSPU1HL4R0C	4PF, 50V, ±.25PF, Ceramic	**
C113	VCCCPU1HH220J	22PF, 50V, ±5%, Ceramic	**
C114	VCCSPU1HL100K	10PF, 50V, ±10%, Ceramic	**
C115, C116	VCCSPU1HL150K	15PF, 50V, ±10%, Ceramic	**
C117	VCCSPU1HL3R0C	3PF, 50V, ±.25PF, Ceramic	**
C118, C119, C120, C121,	VCKZPU1HF223Z	.022MFD	**
C124	VCKZPU1HF223Z	.022MFD	**
C125	VCCSPU1HL100K	10PF, 50V, ±10%, Ceramic	**
C126	VCKZPU1HF103Z	.01MFD	**
C128	VCKZPU1HF223Z	.022MFD	**
C131	VCQSMT1HS471J	470PF, 50V, ±5%, Styrol	AB
C134	VCQYKU1HM473K	.047MFD, 50V, ±10%, Mylar	AC
C137, C138	VCQYKU1HM682K	.0068MFD, 50V, ±10%, Mylar	AB
C141	VCKZPU1HF473Z	.047MFD	**
C142, C143	VCCSPU1HL1R0C	1PF, 50V, ±.25PF, Ceramic	**
C144	VCKZPU1HF223Z	.022MFD	**
C145	VCKZPU1HF473Z	.047MFD	**
C146	VCKZPU1HF223Z	.022MFD	**
C147	VCCSPU1HL680K	68PF, 50V, ±10%, Ceramic	**
C148, C149	VCQYKU1HM472K	.0047MFD, 50V, ±10%, Mylar	AB
C151	VCKZPU1HF223Z	.022MFD	**
C154	VCCSPU1HL180K	18PF, 50V, ±10%, Ceramic	**
C155	VCCSPU1HL820K	82PF, 50V, ±10%, Ceramic	**
C156	VCCSPU1HL220K	22PF, 50V, ±10%, Ceramic	**
C157	VCKZPU1HF223Z	.022MFD	**
C158	VCQYKU1HM223K	.022MFD, 50V, ±10%, Mylar	AB
C159, C161, C162	VCKZPU1HF223Z	.022MFD	**
C164	VCQYKU1HM102K	.001MFD, 50V, ±10%, Mylar	AB
C165	VCQSMT1HS472J	4700PF, 50V, ±5%, Styrol	AC
C166	VCCSPU1HL6R0C	6PF, 50V, ±.25PF, Ceramic	**
C167	VCQYKU1HM273K	.027MFD, 50V, ±10%, Mylar	AB
C168	VCQYKU1HM103K	.01MFD, 50V, ±10%, Mylar	AB
C169	VCQSMT1HS471J	470PF, 50V, ±5%, Styrol	AB
C170	VCCPPU1HH180J	18PF, 50V, ±5%, Ceramic	**
C171	VCQSMT1HS221J	220PF, 50V, ±5%, Styrol	AB
C172	VCCCPU1HH101J	100PF, 50V, ±5%, Ceramic	**
C173	VCKZPU1HF223Z	.022MFD	**
C174	VCCSPU1HL180K	18PF, 50V, ±10%, Ceramic	**
C177, C178	VCKZPU1HF102P	.001MFD, 50V, +100 −0%, Ceramic	**
C181, C182	VCQYKU1HM103K	.01MFD, 50V, ±10%, Mylar	AB
C184, C185	VCKZPU1HF223Z	.022MFD	**
C187	VCKZPU1HF473Z	.047MFD	**
C190, C191	VCKZPU1HF473Z	.047MFD	**
C192	VCQYKU1HM473K	.047MFD, 50V, ±10%, Mylar	AC
C205, C206	VCQYKU1HM153K	.015MFD, 50V, ±10%, Mylar	AB
C207, C208	VCQYKU1HM102K	.001MFD, 50V, ±10%, Mylar	AB
C215, C216	VCQYKU1HM473K	.047MFD, 50V, ±10%, Mylar	AC
C219, C220	VCQYKU1HM103K	.01MFD, 50V, ±10%, Mylar	AB
C221, C222	VCCSPU1HL120K	12PF, 50V, ±10%, Ceramic	**
C223, C224	VCCSPU1HL220K	22PF, 50V, ±10%, Ceramic	**
C301, C302	VCCSPU1HL471K	470PF, 50V, ±10%, Ceramic	**
C313, C314	VCQYKU1HM473K	.047MFD, 50V, ±10%, Mylar	AC
C318, C319	VCKZPU1MF333P	.033MFD, 75V, +100 −0% Ceramic	**
C327, C328	VCCSPU1HL331K	330PF, 50V, ±10%, Ceramic	**
C331, C332	VCQYKU1HM822J	.0082MFD, 50V, ±5%, Mylar	AC
C333, C334	VCQYKU1HM333J	.033MFD, 50V, ±5%, Mylar	AC
C341	VCKZPU1HF103Z	.01MFD	**
C401, C402	VCKYPU1HB561K	560PF, 50V, ±10%, Ceramic	**
C405, C406	VCCSPU1HL181J	180PF, 50V, ±5%, Ceramic	**
C407, C408	VCKZPU1HF102Z	.001MFD	**
C415, C416	VCQYKU1HM223K	.022MFD, 50V, ±10%, Ceramic	AB
C421, C422	VCQYKU1HM122J	.0012MFD, 50V, ±5%, Mylar	AB
C423	VCCSPU1HL820K	82PF, 50V, ±10%, Ceramic	**
C426	VCQYKU1HM273K	.027MFD, 50V, ±10%, Mylar	AB
C427, C428	VCQYKU1HM822K	.0082MFD, 50V, ±10%, Mylar	AB
C429	VCQYKU1HM473K	.047MFD, 50V, ±10%, Mylar	AC
C430	VCKZPU1HF103Z	.01MFD	
C432	VCQYKU1HM183K	.018MFD, 50V, ±10%, Mylar	AB
C433, C434	VCKYPU1HB821K	820PF, 50V, ±10%, Ceramic	
C435	VCQYKU1HM273K	.027MFD, 50V, ±10%, Mylar	AB
C437, C438	VCQYKU1HM272K	.0027MFD, 50V, ±10%, Mylar	AB
C601	RC-PZ062CAFZZ	.033MFD, AC 450V, ±20%, Oil	AG
C701	Not Available	Player Parts 038	N.A.

PARTS LIST

RESISTORS

(Unless otherwise specified resistors are 1/4W, ±5%, Carbon type.)

REF. NO.	PART NO.	DESCRIPTION	CODE
R101	VRD-ST2EE104J	100K ohm	**
R102	VRD-ST2EE105J	1 Meg ohm	**
R103	VRD-ST2EE470J	47 ohm	**
R104	VRD-ST2EE330J	33 ohm	**
R105	VRD-ST2EE470J	47 ohm	**
R106	VRD-ST2EE561J	560 ohm	**
R107	VRD-ST2EE103J	10K ohm	**
R108	VRD-ST2EE153J	15K ohm	**
R109	VRD-ST2EE102J	1K ohm	**
R110	VRD-ST2EE104J	100K ohm	**
R111	VRD-ST2EE331J	330 ohm	**
R112	VRD-ST2EE103J	10K ohm	**
R113	VRD-ST2EE682J	6.8K ohm	**
R114	VRD-ST2EE102J	1K ohm	**
R115	VRD-ST2EE101J	100 ohm	**
R116	VRD-ST2EE564J	560K ohm	**
R117	VRD-ST2EE222J	2.2K ohm	**
R118	VRD-ST2EE471J	470 ohm	**
R119	VRD-ST2EE331J	330 ohm	**
R120	VRD-ST2EE472J	4.7K ohm	**
R121	VRD-ST2EE123J	12K ohm	**
R122	VRD-ST2EE474J	470K ohm	**
R123	VRD-ST2EE154J	150K ohm	**
R124	VRD-ST2EE562J	5.6K ohm	**
R125	VRD-ST2EE473J	47K ohm	**
R126	VRD-ST2EE153J	15K ohm	**
R127	VRD-ST2EE102J	1K ohm	**
R128	VRD-ST2EE470J	47 ohm	**
R129, R130	VRD-ST2EE392J	3.9K ohm	**
R131, R132	VRD-ST2EE183J	18K ohm	**
R133, R134	VRD-ST2EE123J	12K ohm	**
R135	VRD-ST2EE332J	3.3K ohm	**
R136	VRD-ST2EE562J	5.6K ohm	**
R137	VRD-ST2EE331J	330 ohm	**
R138	VRD-ST2EE224J	220K ohm	**
R139	VRD-ST2EE471J	470 ohm	**
R140	VRD-ST2EE103J	10K ohm	**
R141	VRD-ST2EE272J	2.7K ohm	**
R142	VRD-ST2EE332J	3.3K ohm	**
R143	VRD-ST2EE271J	270 ohm	**
R144	VRD-ST2EE562J	5.6K ohm	**
R145	VRD-ST2EE473J	47K ohm	**
R146	VRD-ST2EE823J	82K ohm	**
R147	VRD-ST2EE562J	5.6K ohm	**
R148	VRD-ST2EE682J	6.8K ohm	**
R149	VRD-ST2EE4R7J	4.7 ohm	**
R150	VRD-ST2EE222J	2.2K ohm	**
R151	VRD-ST2EE221J	220 ohm	**
R152	VRD-ST2EE822J	8.2K ohm	**
R153	VRD-ST2EE153J	15K ohm	**
R154	VRD-ST2EE682J	6.8K ohm	**
R155	VRD-ST2EE4R7J	4.7 ohm	**
R156	VRD-ST2EE821J	820 ohm	**
R157	VRD-ST2EE471J	470 ohm	**
R158	VRD-ST2EE4R7J	4.7 ohm	**
R159	VRD-ST2EE273J	27K ohm	**
R160	VRD-ST2EE272J	2.7K ohm	**
R161	VRD-ST2EE121J	120 ohm	**
R162	VRD-ST2EE103J	10K ohm	**
R163	VRD-ST2EE332J	3.3K ohm	**
R164	VRD-ST2EE222J	2.2K ohm	**
R165, R166	VRD-ST2EE105J	1 Meg ohm	**
R167, R168	VRD-ST2EE391J	390 ohm	**
R169, R170	VRD-ST2EE103J	10K ohm	**
R171, R172	VRD-ST2EE103J	10K ohm	**
R173, R174	VRD-ST2EE104J	100K ohm	**
R175, R176	VRD-ST2EE473J	47K ohm	**
R177, R178	VRD-ST2EE182J	1.8K ohm	**
R179, R180	VRD-ST2EE393J	39K ohm	**
R181, R182	VRD-ST2EE153J	15K ohm	**
R188	VRD-ST2EE102J	1K ohm	**
R189	VRD-ST2EE123J	12K ohm	**
R190	VRD-ST2EE101J	100 ohm	**
R191, R192	VRD-ST2EE123J	12K ohm	**
R193	VRD-ST2EE473J	47K ohm	**
R194	VRD-ST2EE153J	15K ohm	**
R195, R196	VRD-ST2EE103J	10K ohm	**
R197	VRC-MT2HG391J	390 ohm, 1/2W, ±5%, Carbon	**
R201, R202	VRD-ST2EE104J	100K ohm	**
R203, R204	VRD-ST2EE185J	1.8 Meg ohm	**
R205, R206	VRD-ST2EE153J	15K ohm	**
R207, R208	VRD-ST2EE271J	270 ohm	**
R209, R210	VRD-ST2EE123J	12K ohm	**
R211, R212	VRD-ST2EE123J	12K ohm	**
R213, R214	VRD-ST2EE104J	100K ohm	**
R215, R216	VRD-ST2EE125J	1.2 Meg ohm	**
R217, R218	VRD-ST2EE151J	150 ohm	**
R219, R220	VRD-ST2EE562J	5.6K ohm	**
R221, R222	VRD-ST2EE562J	5.6K ohm	**
R223, R224	VRD-ST2EE331J	330 ohm	**
R225, R226	VRD-ST2EE102J	1K ohm	**
R227, R228	VRD-ST2EE123J	12K ohm	**
R301, R302	VRD-ST2EE332J	3.3K ohm	**

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
R303, R304	VRD-ST2EE102J	1K ohm	**
R305, R306	VRD-ST2EE224J	220K ohm	**
R307, R308	VRD-ST2EE334J	330K ohm	**
R309, R310	VRD-ST2EE224J	220K ohm	**
R311, R312	VRD-ST2EE820J	82 ohm	**
R313, R314	VRD-ST2EE123J	12K ohm	**
R315, R316	VRD-ST2EE4R7J	4.7 ohm	**
R321	VRC-MT2HG561Z	560 ohm, 1/2W, ±5%, Carbon	**
R324	VRD-ST2EE150J	15 ohm	**
R325, R326	VRD-ST2EE473J	47K ohm	**
R327, R328	VRD-ST2EE103J	10K ohm	**
R329, R330	VRD-ST2EE102J	1K ohm	**
R331, R332	VRD-ST2EE224J	220K ohm	**
R333, R334	VRD-ST2EE154J	150K ohm	**
R335, R336	VRD-ST2EE124J	120K ohm	**
R337, R338	VRD-ST2EE563J	56K ohm	**
R339	VRD-ST2EE332J	3.3K ohm	**
R340	VRW-CL4AB271K	270 ohm, 10W, ±10%,Wirewound	**
R341	VRC-MT2HG102J	1K ohm, 1/2W, ±5%, Carbon	**
R401, R402	VRD-ST2EE101J	100 ohm	**
R403, R404	VRD-ST2EE124J	120K ohm	**
R405, R406	VRD-ST2EE123J	12K ohm	**
R407, R408	VRD-ST2EE824J	820K ohm	**
R409, R410	VRD-ST2EE104J	100K ohm	**
R411, R412	VRD-ST2EE392J	3.9K ohm	**
R413, R414	VRD-ST2EE682J	6.8K ohm	**
R415, R416	VRD-ST2EE562J	5.6K ohm	**
R417, R418	VRD-ST2EE124J	120K ohm	**
R419, R420	VRD-ST2EE473J	47K ohm	**
R421, R422	VRD-ST2EE333J	33K ohm	**
R423, R424	VRD-ST2EE473J	47K ohm	**
R425, R426	VRD-ST2EE682J	6.8K ohm	**
R427	VRD-ST2EE123J	12K ohm	**
R428	VRD-ST2EE681J	680 ohm	**
R429, R430	VRD-ST2EE102J	1K ohm	**
R431, R432	VRD-ST2EE221J	220 ohm	**
R433, R434	VRD-ST2EE183J	18K ohm	**
R435	VRC-MT2HG100K	10 ohm, 1/2W, ±10%, Carbon	**
R436, R437	VRD-ST2EE104J	100K ohm	**
R438	VRG-ST2EA220J	22 ohm, 1/4W, ±5%, Fusible	AB
R439, R440	VRD-ST2EE393J	39K ohm	**
R441	VRD-ST2EE822J	8.2K ohm	**
R442	VRD-ST2EE563J	56K ohm	**
R443	VRD-ST2EE272J	2.7K ohm	**
R444	VRD-ST2EE124J	120K ohm	**
R445	VRG-ST2EA221J	220 ohm, 1/4W, ±5%, Fusible	AB
R446	VRC-MT2HG182K	1.8K ohm, 1/2W, ±10%, Carbon	**
R447, R448	VRD-ST2EE683J	68K ohm	**
R449, R450	VRD-ST2EE393J	39K ohm	**
R451	VRD-ST2EE472J	4.7K ohm	**
R452	VRD-ST2EE1R0J	1 ohm	**
R453	VRC-MT2HG560K	56 ohm, 1/2W, ±10%, Carbon	**
R454	VRD-ST2EE273J	27K ohm	**
R455 R456	VRD-ST2EE103J	10K ohm	**
R501	VRD-ST2EE331J	330 ohm	**
R502	VRD-ST2EE682J	6.8K ohm	**
R503	VRD-ST2EE103J	10K ohm	**
R504	VRD-ST2EE221J	220 ohm	**
R505	VRD-ST2EE333J	33K ohm	**
R506	VRD-ST2EE102J	1K ohm	**
R507	VRD-ST2EE561J	560 ohm	**
R508	VRD-ST2EE102J	1K ohm	**
R509, R510	VRD-ST2EE224J	220K ohm	**
R511	VRD-ST2EE333J	33K ohm	**
R512	VRD-ST2EE222J	2.2K ohm	**
R513	VRD-ST2EE123J	12K ohm	**
R514	VRD-ST2EE472J	4.7K ohm	**
R515	VRD-ST2EY101J	100 ohm	**
R601, R602	VRC-MT2HG271K	270 ohm, 1/2W, ±10%, Carbon	**

PLAYER PARTS

001	91Z851453	Pick-up Ass'y	—
001-A	91ZCART-112	Cartridge	—
001-B	91ZSTY-112	Stylus	—
002	91Z893869	Elevation Plate	—
003	91Z507947	Washer, 6ϕ	—
004	91Z895471	Rest Stand, Ass'y	—
005	91Z851164-2	Pick-up Base	—
006	91Z832780	Spring, Elevation Shaft	—
007	91Z893583-1	Control Arm, Ass'y	—
008	91Z895523	Elevation Shaft	—
009	91Z851162	Player Board	—
010	91Z895468	Rubber, Leg	—
011	91Z895472	Lever, Operation/Speed Selector	—
012	91Z890755	Wire Holder	—
013	91Z892752	Terminal Strip (5 Pin)	—
014	91Z895473	Output Socket, Ass'y (CNS-3)	—
015	91Z890765	Washer, Operation Base Shaft	—
016	91Z890709-3	Operation Arm, Ass'y	—
017	91Z870038	Base, Operation Arm	—
018	91Z890767	Base, Seesaw Arm	—

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
019	91Z830151	Seesaw Arm, Ass'y	—
020	91Z894614	Switch, Phono Motor (SW4)	—
021	91Z893803	Insulator, Phono Motor Switch	—
022	91Z890994-3	Switch Arm, Ass'y	—
023	91Z894408	Wire Holder	—
024	91Z890995	Eccentric Pin	—
025	91Z813152	"E" Stop Ring (3ϕ)	—
026	91Z891707	Return Gear, Ass'y	—
027	91Z890620	Stud, Gear Stopper	—
028	91Z890619	Shaft, Eccentric	—
029	91Z890618	Arm, Gear Stopper	—
030	91Z890628	Spring, Gear Stopper	—
031	91Z891190	Kick Lever	—
032	91Z891191	Spring, Kick Lever	—
033	91Z890322-1	Shaft, Kick Lever	—
034	91Z813153	"E" Stop Ring (4ϕ)	—
035	91Z890684	Switch Lever, Ass'y	—
036	91Z894691	Terminal Strip (4 Pin)	—
037	91Z892962-7	Cord, Micro Switch (White)	—
038	91Z892428-2	Capacitor, .022MFD, 250V (C701)	—
039	91Z894412-7	Cord, Micro Switch (Red)	—
040	91Z896741	Phono Motor Connector, Ass'y (CNS-4)	—
041	91Z890344-8	Tube (5.8ϕ x 20ℓ)	—
042	91Z890065-2	Shaft, Operation Lever	—
043	91Z890792	Operation Lever Arm	—
044	91Z892086-8	Spring, Operation Lever Arm	—
045	91Z890322-2	Shaft, Switch Arm	—
046	91Z892331	Spring, Switch Arm	—
047	PEPAP0001SGSA	EP Adaptor (91Z890876)	AC
048	91Z871087	Turntable Sheet	—
049	91Z703549-1	Turntable	—
050	91Z895469	Fuse Cover	—
051	91Z830310	Bearing Ass'y, Turntable	—
052	91Z631587	Motor Ass'y with Pulley and Idler	—
052-A	91ZMOTOR-727	Motor (M1)	—
052-B	NPLYP0056AFH5	Pulley (50 Hz)	—
	NPLYP0056AFH6	Pulley (60 Hz)	—
052-C	91ZI-704	Idler	—
053	91Z895468-1	Rubber, Leg	—
054	91Z895011-1	Weight, Tonearm Shaft	—
055	91Z894756	Cover, Control Arm	—

TAPE DECK PARTS LIST

101	JKNBR0111AFSA	Key, REW/PLAY/FF/ STOP/PAUSE	AC
102	LANGF0401AFFW	Bracket, P.W. Board	—
103	LANGF0402AFFW	Bracket, Main Chassis	—
104	LANGF0394AFZZ	Bracket, Function Key, Shaft	—
105	LANGT0547AFFW	Bracket, Flywheel	—
106	LANGT0614AFZZ	Bracket, Motor	—
107	LANGT0615AFZZ	Bracket, Plunger	—
108	LANGT0617AFZZ	Bracket,Ass'y, Micro Switch (SW10, 11)	—
109	LBSHS0001AG00	Cushion Rubber, Motor	—
110	LCHSM0262AFZZ	Main Chassis Ass'y	—
111	LCHSS0115AFFD	Sub-chassis	—
112	LDAIH0051AFZZ	Block, Head Mounting	—
113	LSLVM0058AFFW	Sleeve, Lock Lever Release Lever	—
114	LSLVM0061AFFW	Sleeve, APSS Function Lever	—
115	LSLVM0062AFFW	Sleeve, APSS Function Lever	—
116	LSTPF0052AFFW	Retainer, Function Key Shaft	—
117	LX-BZ0108AGZZ	Screw, Flywheel Thrust Adjust	—
118	LX-BZ0219AFFD	Screw, Motor Retaining	—
119	LX-BZ0229AFFD	Screw, Micro Switch (SW10, 11) Retaining	—
120	LX-WZ9051AFZZ	Washer, Capstan Oil Cut	—
121	MLEVF0514AFFW	Lever, Take-up Idler Release	—
122	MLEVF0634AFFD	Lever, Lock Lever Release	—
123	MLEVF0635AFZZ	Lever, Solenoid	—
124	MLEVF0637AFFD	Lever, Sub-chassis Return	—
125	MLEVF0638AFFW	Lever, APSS Safety	—
126	MLEVF0785AFFN	Lever, Playback/Record Key Lock	—
127	MLEVF0641AFFN	Lever, Fast Forward/Rewind Key Lock	—
128	MLEVF0710AFZZ	Lever Ass'y, APSS Function	—
129	MLEVF0712AFZZ	Lever Ass'y, Muting Switch	—
130	MLEVF0713AFZZ	Lever Ass'y, Brake	—
131	MLEVF0714AFZZ	Lever Ass'y, Pause	—
132	MLEVF0715AFZZ	Lever, Fast Forward	—
133	MLEVF0720AFZZ	Lever, Record	—
134	MLEVP0031AFZZ	Lever, Take-up Idler	—
135	MLEVP0080AFZZ	Lever, Record Safety	—
136	MLEVP0095AG00	Lever, Eject	—
137	MSPRC0031AGMN	Spring, Record/Playback Head Azimuth	—
138	MSPRC0120AFFJ	Spring, Muting Switch (SW7)	—
139	MSPRC0123AFFJ	Spring, Solenoid	—
140	MSPRD0129AFFJ	Spring, Pressure Roller	—
141	MSPRP0131AFFW	Spring (Plate type), Cassette Hold	—
142	MSPRP0136AFFW	Spring (Plate type), Sub-chassis Retaining	—
143	MSPRT0253AGFJ	Spring, Record Lever	—
144	MSPRT0254AGFJ	Spring, Stop/Eject Key	—
145	MSPRT0258AGFJ	Spring, Eject Lever	—
146	MSPRT0259AGFJ	Spring, Lock Lever	—
147	MSPRT0266AGFJ	Spring, Play/Fast Forward/ Rewind/Pause Key	—
148	MSPRT0400AFFJ	Spring, Muting Switch Lever	—
149	MSPRT0401AFFJ	Spring, Brake/APSS Function Lever	—
150	MSPRT0402AFFJ	Spring, Fast Forward/Rewind Roller	—
151	MSPRT0403AFFJ	Spring, APSS Safety Lever	—
152	MSPRT0404AFFJ	Spring, Sub-chassis Return	—
153	MSPRT0405AFFJ	Spring, Fast Forward/Rewind Roller	—
154	MSPRT0406AFFJ	Spring, Pause Lever	—
155	MSPRT0408AFFJ	Spring, Take-up Idler	—
156	MSPRT0453AFFJ	Spring, Record Safety Lever	—
157	MSPRT0478AFFJ	Spring, Fast Forward/Rewind Roller	—
158	NBALS0004AGFJ	Ball, 3ϕ	—
159	NBLTH0056AFZZ	Belt, Drive	AD
160	NBRGC0053AFZZ	Bearing, Capstan	—
161	NDAIR0114AFSA	Turntable, Take-up	AG
162	NDAIR0115AFSA	Turntable, Supply	AE
163	NFLYC0063AFZZ	Flywheel	AL
164	NIDR-0021AGZZ	Idler, Take-up	—
165	NPLYR0050AFZZ	Pulley, Take-up	—
166	NROLV0006AFZZ	Roller Ass'y, Fast Forward/ Rewind	AH
167	NROLX0003AFZZ	Gear, Rewind	AB
168	NROLY0001AFZZ	Pressure Roller Ass'y	AG
169	NSFTZ0062AFFP	Shaft, Function Key	—

PARTS LIST

REF. No.	PART NO.	DESCRIPTION	CODE
170	PCOVW9107AFZZ	Insulator, Tape Selector Switch (SW11)	AA
171	PCUSG0061AF00	Cushion Rubber, Sub-chassis	AB
172	PCUSS0077AFZZ	Cushion, Lock Lever	—
173	PFLT-0284AFZZ	Rubber, Lock Lever	—
174	PGIDS0006AGFW	Pivot, Fast Forward Lever	—
175	PGUMM0114AF00	Rubber, APSS Function Lever	—
176	PSHEF0112AF00	Cushion, Main Chassis	—
177	QPWBF0692AFZZ	P.W. Board, Mechanism (P.W.B. only)	—
178	RHEDA0059AFZZ	Head, Erase	AK
179	RHEDH0059AFZZ	Head, Record/Playback	AV
180	KCOUB0065AFZZ	Counter with Full Auto Stop Senser, Ass'y	AU
181	NBLTK0115AFZZ	Belt, Counter	AC
182	JKNBR0111AFSB	Key, REC	AD
183	LSLVM0074AFFW	Sleeve, Record Lever	—
184	LSLVM0069AFFW	Spacer, Fast Forward Rewind Roller Ass'y	—
185	PSPAD0050AFFW	0.1 mm Spacer, REC·PB/ Erace Head Adjustment	—
	PSPAD0051AFFW	0.2 mm	—
	PSPAD0052AFFW	0.3 mm	—

MISCELLANEOUS

CNP1	QCNCM0604SGZZ	Connecting Plug, 6 Pin	AD
CNP2	QCNCM054FAFZZ	Connecting Plug, 6 Pin	AD
CNP3	QCNCM094CAFZZ	Connecting Plug, 3 Pin	AD
CNP4	QCNCW154CAFZZ	Connecting Plug, 3 Pin	AC
CNP5	QCNCM0806SGZZ	Connecting Plug, 8 Pin	AE
CNP6	QCNCM123QAFZZ	Connecting Plug, 15 Pin	AF
CNP7	Not Available Part of 180	Connecting Plug, 3 Pin	N.A.
CNS1	QCNCW0603SGZZ	Connecting Socket, 6 Pin	AB
CNS2	QCNCW054FAFZZ	Connecting Socket, 6 Pin	AC
CNS3	Not Available	Player Parts 014	N.A.
CNS4	Not Available	Player Parts 040	N.A.
CNS5	QCNCW0805SGZZ	Connecting Socket, 8 Pin	AC
CNS6	QCNCW141QAFZZ	Connecting Socket, 15 Pin	AC
CNS7	QCNCW086CAFZZ	Connecting Socket, 3 Pin	AB
F301	QFS-C162CAGNI	Fuse, 1.6AT	AE
F302	QFS-C322CAGNI	Fuse, 3.15AT	AE
F303	QFS-C102CAGNI	Fuse, 1AT	AE
J601, J602	QJAKE0056AFZZ	Jack, Microphone	AG
J603	QJAKJ0001SGZZ	Jack, Headphone	AG
ME1	RMTRE0072AFZZ	Meter, Tuning	AR
M1	Not Available	Player Parts 052-A	N.A.
M2	RMOTM0069AFZZ	Motor for Tape Deck	AX
PL1	RLMPM0026AGZZ	Lamp, Stereo Indicator	AE
PL2	RLMPM0026AGZZ	Lamp, Meter Illumination	AE
PL3, PL4, PL5, PL6	RLMPM0067AFZZ	Lamp, Dial Illumination	AE
PL7	RLMPM0068AFZZ	Lamp, Record Indicator	AD
PL8	RLMPM0068AFZZ	Lamp, CrO_2 Indicator	AD
PL9	RLMPM0068AFZZ	Lamp, REV. APSS Indicator	AD
PL10	RLMPM0068AFZZ	Lamp, FWD. APSS Indicator	AD
PTH301	RH-QX1001AFZZ	Posistor, IC Protector	AF
SOL501	RPLU-0060AFZZ	Solenoid for Auto Stop	AP
SO101	QSOCD2259AFZZ	Socket, FM Antenna	AD
SO102	QSOCD2260AFZZ	Socket, AM Antenna	AE
SO103	QSOCD2557AFZZ	Socket,(DIN), AUX	AF
SO301, SO302	QSOCD2258AFZZ	Socket, Speaker	AE
SO601	QSOCE0410AGZZ	Voltage Selector	AH
SW1 (1～8)	QSW-P0146AFZZ	Switch, Push Switch Assembly SW1-1: FM SW1-2: SW SW1-3: MW SW1-4: LW SW1-5: PHONO SW1-6: TAPE SW1-7: AUX. SW1-8: MONO.	AW
SW2	QSW-S0192AFZZ	Switch, Record Playback	AG
SW3	QSW-S0191AFZZ	Switch, R.I.F.	AE
SW4	Not Available	Player Parts 020	N.A.
SW5	QSW-P0158AFZZ	Switch, Power	AM
SW6	QSW-S0185AFZZ	Switch, Transport Switch A	AG
SW7	QSW-S0174AFZZ	Switch, Muting	AG
SW8	QSW-S0188AFZZ	Switch, APSS	AE
SW9	QSW-S0188AFZZ	Switch, Transport Switch B	AE
SW10	QSW-M0058AFZZ	Switch, Transport Switch C	AG
SW11	QSW-M0057AFZZ	Switch, Auto Tape Selector	AG
201	GCABA1482AFSA	Cabinet, Top	**
202	GCABB1482AFSA	Cabinet, Bottom	**
203	GCOVA1084AFSA	Dust Cover	BC
204	GCOVA1085AFSA	Cover, Hinge (Right)	AC
205	GCOVA1086AFSA	Cover, Hinge (Left)	AC
206	GDAI-1004AFZZ	Base, Hinge (Right)	AC
207	GDAI-1005AFZZ	Base, Hinge (Left)	AC
208	GFTAC1070AFSC	Holder, Cassette	**
209	GFTAU3066AFZZ	Cover, Cabinet Bottom	AN
210	HBDGB3001CESA	Indication Metal, SHARP	AD
211	HDALP0394AFSA	Dial Scale	**
212	HDAP-0170AFSA	Plate, Dial Scale	AM
213	HDECB0018AGS	Mirror	AA
214	HDECQ0064AFSA	Decoration Cover (Orange), REC/FM STEREO	AB
215	HDECQ0064AFSB	Decoration Cover (Green), CrO_2	AB
216	HDECQ0065AFSA	Decoration Cover (Green), APSS (REV. FWD)	AC
217	HINDM1235AFSA	Decoration Plate, Model	**
218	HSSND0232AFSA	Pointer, Dial Scale (Fig. 4–2)	AD
219	JKNBN0371AFSA	Knob, Tuning	**
220	JKNBP0075AFSA	Knob, BASS/TREBLE/ BALANCE/VOLUME	AC
221	JKNBZ0132AFSA	Knob, Push Switch	AD
222	LANGQ0603AFZZ	Bracket, Player Motor Plug Retaining	**
223	LANGK0180AFZZ	Bracket, Meter	AH
224	LANGK0181AFZZ	Plate, Hinge	AB
225	LANGQ0517AFZZ	Bracket, Tape Deck P.W. Board Retaining (Right)	AB
226	LANGQ0518AFZZ	Bracket, Record P.W. Board Retaining (Left)	AC
227	LANGR0439AFZZ	Bracket, Power Transformer	**
228	LANGR0417AFZZ	Bracket, Volume	AC
229	LANGT0620AFZZ	Bracket, Dial Cord Pulley	AB
230	LANGT0621AFZZ	Bracket, Dial Cord Pulley	AB
231	LBSHC0004AGZZ	Bushing, Mains Supply Cord	AC
	LBSHC0053AFZZ	Bushing, Mains Supply Cord	AB
232	LBSHZ0001AF00	Bushing, FM ST. IND. Lamp	AA

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
233	LHLDC1051AFZZ	Holder, Bar Antenna	AD
234	LHLDP3057AFZZ	Bracket, Dial Scale (Right)	AD
235	LHLDP3058AFZZ	Bracket, Dial Scale (Left)	AE
236	LHLDW1027AGZZ	Holder, Wire	AA
237	LHLDW1067AFZZ	Band, Wire (60mm)	AA
238	LHLDW1068AFZZ	Band, Wire (100mm)	AA
239	LHLDW9003CEZZ	Holder, Wire	AA
240	LHLDZ3055AFZZ	Holder, Hinge	AE
241	LPLTM0104AFZZ	Washer, Hinge	AA
242	LPLTM0102AFZZ	Bracket, Push Switch	AA
243	LX-BZ0244AFFF	Shaft, Dial Cord Pulley (Refer to Figure 4–2)	AA
244	LX-NZ0108AFFN	Nut, Headphone Jack	AB
245	MARMP0003AFZZ	Arm, Dust Cover (Right)	AD
246	MARMP0004AFZZ	Arm, Dust Cover (Left)	AD
247	MLEVF0614AFZZ	Lever, Eject	AB
248	MLEVF0717AFZZ	Lever, Record (Refer to Figure 29–1)	AC
249	MLEVP0025AG00	Lock, Cassette Holder	AB
250	MRODM0057AFZZ	Rod, Record Lever (Refer to Figure 29–1)	AC
251	MSPRD0174AFFJ	Spring, Hinge (Right)	AC
252	MSPRD0175AFFJ	Spring, Hinge (Left)	AC
253	MSPRP0129AFFW	Spring (Plate type), Cassette Holder	AB
254	MSPRT0304AFFJ	Spring, Dial Cord Stringing (Refer to Figure 4–2)	AA
255	MSPRT0388AFFJ	Spring, Eject Lever	AA
256	MSPRT0410AFFJ	Spring, Cassette Holder	AB
257	NDRM-0002SGZZ	Drum, Dial Cord	AH
258	NPLYB0054AF00	Pulley, Dial Cord (Refer to Figure 4–2)	AB
259	NPLYB0055AF08	Pulley, Dial Cord (Refer to Figure 4–2)	AA
260	NSFTD0175AFZZ	Shaft, Tuning (Refer to Figure 4–2)	AG
261	PCOVU8111AFZZ	Cover, Lamp (APSS, REC, CrO_2)	AD
262	PCOVU8107AFZZ	Cover, Dial Lamp	AB
263	PCUSF0004AF00	Cushion, Push Switch Knob	AA
264	PFLT-0348AFZZ	Felt, Leg	**
265	PFLT-0309AF00	Felt, Volume Lever	AB
266	PGIDH0051AFZZ	Holder, Eject Lever	AA
267	PGUMM0041AG00	Holder, Meter	AC
268	PGUMM0061AG00	Cushion Rubber, Cabinet Top	AB
269	PGUMM0107AF00	Cushion Rubber, Cassette Holder	AB
270	PRDAR0168AFFW	Heatsink	**
271	PREFL0062AFZZ	Bracket, Dial Lamp	—
272	PSLDC3060AFZZ	Shield, Variable Capacitor	AB
273	PSLDC3061AFZZ	Shield, Variable Capacitor	AA
274	PSLDC3063AFZZ	Shield, Volume P.W. Board	AB
275	PSLDM7106AFZZ	Shield, Cabinet Bottom	AB
276	PSPA10120AFZZ	Cushion, Cabinet Top	AB
277	PSTPK0005AGZZ	Stopper, Bar Antenna Coil	—
278	QLUGL0250AFZZ	Terminal Strip (2 Pin)	AC
279	QLUGL0451AFZZ	Terminal Strip (4 Pin)	AD
280	QFSHD1001AGZZ	Holder, Fuse	AB
281	LBSHZ0053AFZZ	Bushing, REV/FWD/REC/CrO_2 Indicator Lamp	AA
282	LPLTZ0050AFZZ	Washer (Fiber), Hinge	AA
283	LHLDW9002CEZZ	Holder, Wire	AA
284	LX-BZ0230AFFD	Screw, Turntable Retaining	AA
285	LX-HZ0067AFFF	Screw, Heat Sink Retaining	AA
286	MSPRC0169AFFJ	Spring, Hinge	AC
287	NPLYC0101AFFD	Shaft, Dial Cord Pulley (Refer to Figure 4–2)	AA
288	PSPAI0130AFZZ	Spacer (Fiber), Heat Sink Retaining	AA
289	PSPAZ0066AFZZ	Spacer, Turntable Retaining	AC
290	QACCV0001AGZZ	Mains Supply Cord (KEMA)	AP
	QACCZ0002TA0F	Mains Supply Cord (A-CLUB)	AF
	QACCZ0053AF00	Mains Supply Cord (EXMAA)	AK
291	QLUGP0104AGZZ	Lug Terminal	AA
292	QLUGP0105AGZZ	Lug Terminal	AA
293	QLUGP0111CEFW	Lug Terminal	AA
	QANTW0054AFZZ	FM Antenna (T type)	AL
	QPWBF0606AFZZ	P.W.Board, Tuner/MIC (P.W.B. only)	—
	QPWBF0607AFZZ	P.W.Board, Tone (P.W.B. only)	—
	QPWBF0609AFZZ	P.W.Board, Tape Deck/ Lamp (P.W.B. only)	—
	QPWBF0755AFZZ	P.W.Board, Power/Fuse (P.W.B. only)	—
	SPAKA0464AFZZ	Packing Add., Front	AN
	SPAKA0465AFZZ	Packing Add., Back	AQ
	SPAKC1158AFZZ	Packing Case	**
	SPAKP0108AFZZ	Wrapping Sheet, Unit	AG
	SPAKP0109AFZZ	Sheet, Cabinet Protector	AF
	SPAKX0175AFZZ	Sheet, Turntable Sheet Protector	AA
	SPAKZ0068AFZZ	Polyethylene Sheet, EP Adaptor	AA
	SSAKA0007AGZZ	Sack, Turntable Sheet	AA
	SSAKA0007SEZZ	Sack, Operation Manual etc.	AA
	SSAKA0101AFZZ	Sack, Mains Supply Cord	AA
	TINSL0130AFZZ	Operation Manual (English/ German/French/Swedish)	**
	TTAGH0044AFZZ	Tag (English/German/French)	**

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